

## Power Maths to National curriculum matching chart KS2

### Year 3

| Power Maths<br>Year 3 |                                  |  | National curriculum programmes of study |                                 |  |
|-----------------------|----------------------------------|--|---|---------------------------------|--|
| Term                  | Unit                             | Lesson titles  | Year                                    | Domain                          | Pupils should be taught to:  |
| Textbook 3A           | Unit 1, Place value within 1,000 | <ul style="list-style-type: none"> <li>Counting in 100s</li> </ul>     | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul> |
|                       |                                  |  | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul> |
|                       |                                  | 4  |   |                                 |  |
|                       |                                  | <ul style="list-style-type: none"> <li>100s, 10s and 1s (1)</li> </ul> | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul> |
|                       |                                  |  | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (three-digit number).</li> </ul>   |
|                       |                                  | <ul style="list-style-type: none"> <li>100s, 10s and 1s (2)</li> </ul> | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul> |

| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                 |   |
|-----------------------|------|--|---|---------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                          | Pupils should be taught to:   |
|                       |      |  | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (three-digit number).</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>The number line to 1,000 (1)</li> </ul>       | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul>                                    |
|                       |      |  | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (three-digit number).</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>The number line to 1,000 (2)</li> </ul>       | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Compare and order numbers up to 1,000.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul>   |
|                       |      |  | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (three-digit number).</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Finding 1, 10 and 100 more or less</li> </ul> | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.</li> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul> |

| Power Maths<br>Year 3 |                              |  | National curriculum programmes of study |                                   |   |
|-----------------------|------------------------------|--|---|-----------------------------------|---|
| Term                  | Unit                         | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |                              | <ul style="list-style-type: none"> <li>Comparing numbers to 1,000 (1)</li> </ul>                 | 3                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Compare and order numbers up to 1,000.</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul>                                 |
|                       |                              | <ul style="list-style-type: none"> <li>Comparing numbers to 1,000 (2)</li> </ul>                 | 3                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Compare and order numbers up to 1,000.</li> <li>Solve number problems and practical problems involving these ideas.</li> </ul>            |
|                       |                              | <ul style="list-style-type: none"> <li>Ordering numbers to 1,000</li> </ul>                      | 3                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Compare and order numbers up to 1,000.</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul>                   |
|                       |                              | <ul style="list-style-type: none"> <li>Counting in 50s</li> </ul>                                | 3                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.</li> <li>Solve number problems and practical problems involving these ideas.</li> </ul>  |
|                       | Addition and subtraction (1) | <ul style="list-style-type: none"> <li>Adding and subtracting 100s</li> </ul>                    | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> </ul> |
|                       |                              | <ul style="list-style-type: none"> <li>Adding and subtracting a 3-digit number and 1s</li> </ul> | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> </ul> |
|                       |                              | <ul style="list-style-type: none"> <li>Adding a 3-digit number and 1s</li> </ul>                 | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> </ul> |

| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |                                   |   |
|-----------------------|------|---|---|-----------------------------------|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting 1s from a 3-digit number</li> </ul>                | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting a 3-digit number and 10s</li> </ul>     | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding a 3-digit number and 10s</li> </ul>                     | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting 10s from a 3-digit number</li> </ul>               | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting a 3-digit and 2-digit number</li> </ul> | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> <li>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> </ul>           |
|                       |      |   | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul>   |

| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                   |   |
|-----------------------|------|--|---|-----------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Adding a 3-digit and 2-digit number</li> </ul>                | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> <li>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul> |
|                       |      |  | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting a 2-digit number from a 3-digit number</li> </ul> | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> <li>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul> |
|                       |      |  | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul>   |

| Power Maths<br>Year 3 |                              |  | National curriculum programmes of study |                                   |   |
|-----------------------|------------------------------|--|---|-----------------------------------|---|
| Term                  | Unit                         | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       | Addition and subtraction (2) | <ul style="list-style-type: none"> <li>• Addition and subtraction patterns</li> </ul>                      | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>• Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>– a three-digit number and ones</li> <li>– a three-digit number and tens</li> <li>– a three-digit number and hundreds.</li> </ul> </li> <li>• Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul> |
|                       |                              | <ul style="list-style-type: none"> <li>• Adding two 3-digit numbers (1)</li> </ul>                         | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>• Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>– a three-digit number and ones</li> <li>– a three-digit number and tens</li> <li>– a three-digit number and hundreds.</li> </ul> </li> <li>• Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> </ul>   |
|                       |                              | <ul style="list-style-type: none"> <li>• Adding two 3-digit numbers (2)</li> </ul>                         | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>• Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>– a three-digit number and ones</li> <li>– a three-digit number and tens</li> <li>– a three-digit number and hundreds.</li> </ul> </li> <li>• Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul> |
|                       |                              | <ul style="list-style-type: none"> <li>• Subtracting a 3-digit number from a 3-digit number (1)</li> </ul> | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>• Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>– a three-digit number and ones</li> <li>– a three-digit number and tens</li> <li>– a three-digit number and hundreds</li> </ul> </li> <li>• Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> </ul>  |



| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                   |   |
|-----------------------|------|--|---|-----------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting a 3-digit number from a 3-digit number (2)</li> </ul> | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:                             <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds.</li> </ul> </li> <li>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Estimating answers to additions and subtractions</li> </ul>       | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Estimate the answer to a calculation and use inverse operations to check answers.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Checking strategies</li> </ul>                                    | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Estimate the answer to a calculation and use inverse operations to check answers.</li> </ul>   |
|                       |      |  | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Estimate and use inverse operations to check answers to a calculation.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – addition and subtraction (1)</li> </ul>         | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – addition and subtraction (2)</li> </ul>         | 3                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>  |



| Power Maths<br>Year 3 |   |   | National curriculum programmes of study |                                      |  |
|-----------------------|---|---|---|--------------------------------------|--|
| Term                  | Unit                                    | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       | Unit 4, Multiplication and division (1) | <ul style="list-style-type: none"> <li>• Multiplication – equal grouping</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>• Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |   | <ul style="list-style-type: none"> <li>• Multiplying by 3</li> </ul>                | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>• Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |





| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |                                      |  |
|-----------------------|------|---|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing by 3</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>3 times-table</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (3, 4 and 8).</li> </ul>   |



| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                      |  |
|-----------------------|------|--|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>• Multiplying by 4</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>• Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>• Dividing by 4</li> </ul>    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>• Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |

| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                      |  |
|-----------------------|------|--|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>• 4 times-table</li> </ul>    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>• Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      |  | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (3, 4 and 8)</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>• Multiplying by 8</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>• Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |

| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |                                      |  |
|-----------------------|------|---|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing by 8</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>8 times-table</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (3, 4 and 8)</li> </ul>  |

| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |                                      |  |
|-----------------------|------|---|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – multiplication and division (1)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (3, 4 and 8)</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – multiplication and division (2)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (3, 4 and 8)</li> </ul>  |

| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |                                      |  |
|-----------------------|------|---|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Understanding divisibility (1)</li> </ul>              | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Understanding divisibility (2)</li> </ul>              | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Related facts – multiplication and division</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul> |

| Power Maths<br>Year 3 |   |  | National curriculum programmes of study |                                      |  |
|-----------------------|---|--|---|--------------------------------------|--|
| Term                  | Unit                                    | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
| Textbook 3B           | Unit 5, Multiplication and division (2) | <ul style="list-style-type: none"> <li>Comparing multiplication and division statements (1)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul>                             |
|                       |   | <ul style="list-style-type: none"> <li>Related multiplication calculations</li> </ul>                  | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |   | <ul style="list-style-type: none"> <li>Related multiplication and division calculations</li> </ul>     | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |   | <ul style="list-style-type: none"> <li>Comparing multiplication and division statements (2)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |   |  | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (3, 4 and 8)</li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Multiplying a 2-digit number by a 1-digit number (1)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |

| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                      |  |
|-----------------------|------|--|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying a 2-digit number by a 1-digit number (2)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying a 2-digit number by a 1-digit number (3)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |      |  | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing a 2-digit number by a 1-digit number (1)</li> </ul>    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Dividing a 2-digit number by a 1-digit number (2)</li> </ul>    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Dividing a 2-digit number by a 1-digit number (3)</li> </ul>    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>   |





| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |                                      |  |
|-----------------------|------|--|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>How many ways?</li> </ul>                       | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – mixed problems (1)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – mixed problems (2)</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |

| Power Maths<br>Year 3 |               |  | National curriculum programmes of study                          |                                      |  |   |
|-----------------------|---------------|--|--|--------------------------------------|--|---|
| Term                  | Unit          | Lesson titles  | Year   | Domain                               | Pupils should be taught to:  |   |
|                       |               | <ul style="list-style-type: none"> <li>Problem solving – mixed problems (3)</li> </ul> | 3  | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |   |
|                       | Unit 6, Money | <ul style="list-style-type: none"> <li>Pounds and pence</li> </ul>                     | 3  | Measurement                          | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>  |   |
|                       |               | <ul style="list-style-type: none"> <li>Converting pounds and pence</li> </ul>          | 3  | Measurement                          | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>  |   |
|                       |               | <ul style="list-style-type: none"> <li>Adding money</li> </ul>                         | 3  | Measurement                          | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>  |   |
|                       |               |  | 4  | Measurement                          | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>   |   |
|                       |               | <ul style="list-style-type: none"> <li>Subtracting amounts of money</li> </ul>         | 3  | Measurement                          | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>  |   |
|                       |               |  | 4  | Measurement                          | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>   |   |
|                       |               | <ul style="list-style-type: none"> <li>Problem solving – money</li> </ul>              | 3  | Measurement                          | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>  |   |
|                       |               |  | 4  | Measurement                          | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>   |   |
|                       |               | Unit 7, Statistics   | <ul style="list-style-type: none"> <li>Pictograms (1)</li> </ul> | 3                                    | Statistics   | <ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>   |
|                       |               |  |  | 4                                    | Statistics   | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul> |

| Power Maths<br>Year 3 |      |                  | National curriculum programmes of study |            |  |   |
|-----------------------|------|------------------|---|------------|--|---|
| Term                  | Unit | Lesson titles    | Year                                    | Domain     | Pupils should be taught to:  |   |
|                       |      | ● Pictograms (2) | 3                                       | Statistics | ● Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.  |   |
|                       |      |                  | 4                                       | Statistics | ● Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.  |   |
|                       |      | ● Bar charts (1) | 3                                       | Statistics | ● Interpret and present data using bar charts, pictograms and tables.  |   |
|                       |      |                  | 4                                       | Statistics | ● Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.<br>● Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |   |
|                       |      | ● Bar charts (2) | 3                                       | Statistics | ● Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.  |   |
|                       |      |                  | 4                                       | Statistics | ● Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.<br>● Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |   |
|                       |      | ● Tables         | 3                                       | Statistics | ● Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.  |   |
|                       |      |                  | 4                                       | Statistics | ● Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.  |   |
|                       |      | Unit 8, Length   | ● Measuring length (1)                  | 3          | Measurement  | ● Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). |

| Power Maths<br>Year 3 |                       |  | National curriculum programmes of study |                    |   |
|-----------------------|-----------------------|--|---|--------------------|---|
| Term                  | Unit                  | Lesson titles                                      | Year                                    | Domain             | Pupils should be taught to:   |
|                       |                       | • Measuring length (2)                             | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).   |
|                       |                       | • Equivalent lengths – metres and centimetres      | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).   |
|                       |                       |  | 4                                       | Measurement        | • Convert between different units of measure (for example, kilometre to metre; hour to minute).   |
|                       |                       | • Equivalent lengths – centimetres and millimetres | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).   |
|                       |                       |  | 4                                       | Measurement        | • Convert between different units of measure (for example, kilometre to metre; hour to minute).   |
|                       |                       | • Comparing lengths                                | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).   |
|                       |                       |  | 4                                       | Measurement        | • Convert between different units of measure (for example, kilometre to metre; hour to minute).   |
|                       |                       | • Adding lengths                                   | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).   |
|                       |                       | • Subtracting lengths                              | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).   |
|                       |                       | • Measuring the perimeter (1)                      | 3                                       | Measurement        | • Measure the perimeter of simple 2D shapes.  |
|                       |                       |  | 4                                       | Measurement        | • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.                                  |
|                       |                       | • Measuring the perimeter (2)                      | 3                                       | Measurement        | • Measure the perimeter of simple 2D shapes.  |
|                       |                       |  | 4                                       | Measurement        | • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.                                  |
|                       |                       | • Problem solving – length (1)                     | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).<br>• Measure the perimeter of simple 2D shapes. |
|                       |                       | • Problem solving – length (2)                     | 3                                       | Measurement        | • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).<br>• Measure the perimeter of simple 2D shapes. |
|                       | Unit 9, Fractions (1) | • Unit and non unit fractions                      | 3                                       | Number – fractions | • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.                                      |

| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |                    |   |
|-----------------------|------|---|---|--------------------|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain             | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Making the whole</li> </ul>                  | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Tenths (1)</li> </ul>                        | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</li> </ul>                                 |
|                       |      | <ul style="list-style-type: none"> <li>Tenths (2)</li> </ul>                        | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</li> </ul>                                 |
|                       |      | <ul style="list-style-type: none"> <li>Fractions as numbers (1)</li> </ul>          | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Fractions as numbers (2)</li> </ul>          | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Fractions as numbers (3)</li> </ul>          | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Fractions of a set of objects (1)</li> </ul> | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Fractions of a set of objects (2)</li> </ul> | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Fractions of a set of objects (3)</li> </ul> | 3                                       | Number – fractions | <ul style="list-style-type: none"> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> </ul>  |

| Power Maths<br>Year 3 |                           |  | National curriculum programmes of study |   |  |
|-----------------------|---------------------------|--|---|---|--|
| Term                  | Unit                      | Lesson titles  | Year                                    | Domain                                  | Pupils should be taught to:  |
|                       |                           |  | 4                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>  |
|                       |                           | <ul style="list-style-type: none"> <li>Problem solving – fractions</li> </ul>      | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Solve problems that involve all of the above.</li> </ul>  |
|                       |                           |  | 4                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>  |
| Textbook 3C           | Unit 10,<br>Fractions (2) | <ul style="list-style-type: none"> <li>Equivalent fractions (1)</li> </ul>         | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> </ul>  |
|                       |                           | <ul style="list-style-type: none"> <li>Equivalent fractions (2)</li> </ul>         | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul> |
|                       |                           | <ul style="list-style-type: none"> <li>Equivalent fractions (3)</li> </ul>         | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Solve problems that involve all of the above.</li> </ul>                               |
|                       |                           | <ul style="list-style-type: none"> <li>Comparing fractions</li> </ul>              | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul> |
|                       |                           |  | 4                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> </ul>   |
|                       |                           | <ul style="list-style-type: none"> <li>Comparing and ordering fractions</li> </ul> | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul>  |
|                       |                           |  | 4                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> </ul>   |
|                       |                           | <ul style="list-style-type: none"> <li>Adding fractions</li> </ul>                 | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator within one whole (for example, <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>).</li> </ul>                             |
|                       |                           |  | 4                                       | Number – fractions (including decimals) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator.</li> </ul>  |
|                       |                           | <ul style="list-style-type: none"> <li>Subtracting fractions</li> </ul>            | 3                                       | Number – fractions                      | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator within one whole (for example, <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>).</li> </ul>                             |

| Power Maths<br>Year 3 |               |  | National curriculum programmes of study   |  |   |
|-----------------------|---------------|--|---|--|---|
| Term                  | Unit          | Lesson titles  | Year  | Domain   | Pupils should be taught to:   |
|                       |               |  | 4   | Number – fractions (including decimals)  | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator.</li> </ul>   |
|                       |               | <ul style="list-style-type: none"> <li>Problem solving – adding and subtracting fractions</li> </ul> | 3   | Number – fractions   | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator within one whole (for example, <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>)</li> <li>Solve problems that involve all of the above.</li> </ul>  |
|                       |               | <ul style="list-style-type: none"> <li>Problem solving – fractions of measures</li> </ul>            | 3   | Number – fractions   | <ul style="list-style-type: none"> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>Solve problems that involve all of the above.</li> </ul> |
|                       |               |  | 4   | Number – fractions (including decimals)  | <ul style="list-style-type: none"> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>   |
|                       | Unit 11, Time | <ul style="list-style-type: none"> <li>Months and years</li> </ul>                                   | 3   | Measurement  | <ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> </ul>  |
| 4                     |               |  | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul> |   |
| 3                     |               | Measurement  | <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul> |  |   |
| 4                     |               | Measurement  | <ul style="list-style-type: none"> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>  |  |   |

| Power Maths<br>Year 3 |      |  | National curriculum programmes of study |             |   |
|-----------------------|------|--|---|-------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain      | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Estimating time</li> </ul>                | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Telling time to 5 minutes</li> </ul>      | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Telling time to the minute (1)</li> </ul> | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Telling time to the minute (2)</li> </ul> | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Telling time to the minute (3)</li> </ul> | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Finding the duration</li> </ul>           | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul>  |





| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |             |  |
|-----------------------|------|---|---|-------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain      | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Comparing duration</li> </ul>          | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Compare durations of events (for example to calculate the time taken by particular events or tasks).</li> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Finding start and end times</li> </ul> | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Compare durations of events (for example to calculate the time taken by particular events or tasks).</li> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Measuring time in seconds</li> </ul>   | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Compare durations of events (for example to calculate the time taken by particular events or tasks).</li> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul> |
|                       |      |   | 4                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>  |

| Power Maths<br>Year 3 |  |                          | National curriculum programmes of study |                                 |  |
|-----------------------|--|--------------------------|---|---------------------------------|--|
| Term                  | Unit                                     | Lesson titles            | Year                                    | Domain                          | Pupils should be taught to:  |
|                       | Unit 12, Angles and properties of shapes | • Turns and angles       | 3                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles as a property of shape or a description of a turn.</li> <li>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.</li> </ul> |
|                       |  | • Right angles in shapes | 3                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles as a property of shape or a description of a turn.</li> <li>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.</li> </ul> |
|                       |  | • Comparing angles       | 3                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles as a property of shape or a description of a turn.</li> <li>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.</li> </ul> |
|                       |  |                          | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> </ul>  |
|                       |  | • Drawing accurately     | 3                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</li> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>   |
|                       |  | • Types of line (1)      | 3                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>  |
|                       |  | • Types of line (2)      | 3                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>  |
|                       |  |                          | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify lines of symmetry in 2D shapes presented in different orientations.</li> </ul>   |

| Power Maths<br>Year 3 |   |  | National curriculum programmes of study                              |                                 |   |
|-----------------------|---|--|--|---------------------------------|---|
| Term                  | Unit  | Lesson titles  | Year   | Domain                          | Pupils should be taught to:   |
|                       |   | <ul style="list-style-type: none"> <li>Recognising and describing 2D shapes</li> </ul> | 3  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</li> </ul> |
|                       |   |  | 4  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>           |
|                       |   | <ul style="list-style-type: none"> <li>Recognising and describing 3D shapes</li> </ul> | 3  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</li> </ul> |
|                       |   |  | 4  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>           |
|                       |   | <ul style="list-style-type: none"> <li>Constructing 3D shapes</li> </ul>               | 3  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</li> </ul> |
|                       |   | Unit 13, Mass  | <ul style="list-style-type: none"> <li>Measuring mass (1)</li> </ul> | 3                               | Measurement   |
|                       | <ul style="list-style-type: none"> <li>Measuring mass (2)</li> </ul>            |  | 3  | Measurement                     | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>                                   |
|                       | <ul style="list-style-type: none"> <li>Measuring mass (3)</li> </ul>            |  | 3  | Measurement                     | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>                                   |
|                       | <ul style="list-style-type: none"> <li>Comparing masses</li> </ul>              |  | 3  | Measurement                     | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>                                   |
|                       | <ul style="list-style-type: none"> <li>Adding and subtracting masses</li> </ul> |  | 3  | Measurement                     | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>                                   |
|                       | <ul style="list-style-type: none"> <li>Problem solving – mass</li> </ul>        |  | 3  | Measurement                     | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>                                   |
|                       | Unit 14, Capacity   | <ul style="list-style-type: none"> <li>Measuring capacity (1)</li> </ul>               | 3  | Measurement                     | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>                                   |

| Power Maths<br>Year 3 |      |   | National curriculum programmes of study |             |   |
|-----------------------|------|---|---|-------------|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain      | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Measuring capacity (2)</li> </ul>            | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Measuring capacity (3)</li> </ul>            | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Comparing capacities</li> </ul>              | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting capacities</li> </ul> | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – capacity</li> </ul>        | 3                                       | Measurement | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul> |

## Year 4

| Power Maths<br>Year 4 |   |                                | National curriculum programmes of study |                                 |  |
|-----------------------|---|--------------------------------|---|---------------------------------|--|
| Term                  | Unit                                      | Lesson titles                  | Year                                    | Domain                          | Pupils should be taught to:  |
| Textbook 4A           | Unit 1, Place value – 4-digit numbers (1) | • Numbers to 1,000             | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Read and write numbers up to 1,000 in numerals and in words.</li> </ul>                            |
|                       |   |                                | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).</li> </ul>  |
|                       |   |                                | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (1,000).</li> </ul>   |
|                       |   | • Rounding to the nearest 10   | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> </ul>  |
|                       |   |                                | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 (10).</li> </ul>   |
|                       |   |                                | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy (10).</li> </ul>  |
|                       |   | • Rounding to the nearest 100  | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> </ul>  |
|                       |   |                                | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 (100).</li> </ul>  |
|                       |   |                                | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy (100).</li> </ul>   |
|                       |   | • Counting in 1,000s           | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000.</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>  |
|                       |   | • Representing 4-digit numbers | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul> |

| Power Maths<br>Year 4 |      |   | National curriculum programmes of study |                                 |   |
|-----------------------|------|---|---|---------------------------------|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                          | Pupils should be taught to:   |
|                       |      |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (1,000).</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>1,000s, 100s, 10s and 1s</li> </ul>      | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>  |
|                       |      |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (1,000).</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>The number line to 10,000 (1)</li> </ul> | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>  |
|                       |      |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (10,000).</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>The number line to 10,000 (2)</li> </ul> | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).</li> <li>Order and compare numbers beyond 1,000.</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul> |
|                       |      |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (10,000).</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Roman numerals to 100</li> </ul>         | 3                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Identify, represent and estimate numbers using different representations.</li> </ul>   |
|                       |      |   | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</li> </ul>   |

| Power Maths<br>Year 4 |  |   | National curriculum programmes of study |   |  |
|-----------------------|--|---|---|---|--|
| Term                  | Unit   | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:  |
|                       |  |   | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals (100).</li> </ul>  |
|                       | Unit 2, Place value – 4-digit numbers (2)                              | <ul style="list-style-type: none"> <li>Finding 1,000 more or less</li> </ul>      | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Find 1,000 more or less than a given number.</li> </ul>   |
|                       |  |   | 4                                       | Number – addition and subtraction   | <ul style="list-style-type: none"> <li>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Comparing 4-digit numbers (1)</li> </ul>   | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Order and compare numbers beyond 1,000.</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Comparing 4-digit numbers (2)</li> </ul>   | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Order and compare numbers beyond 1,000.</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Ordering numbers to 10,000</li> </ul>      | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Order and compare numbers beyond 1,000.</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Rounding to the nearest 1,000</li> </ul>   | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> </ul>  |
|                       |  |   | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 (1,000).</li> </ul>  |
|                       |  |   | 6                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Solving problems using rounding</li> </ul> | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> <li>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</li> </ul> |
|                       |  | <ul style="list-style-type: none"> <li>Counting in 25s</li> </ul>                 | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000.</li> </ul>   |
|                       | <ul style="list-style-type: none"> <li>Negative numbers (1)</li> </ul> | 4   | Number – number and place value         | <ul style="list-style-type: none"> <li>Count backwards through zero to include negative numbers.</li> </ul> |  |

| Power Maths<br>Year 4 |                                  |  | National curriculum programmes of study |                                   |   |
|-----------------------|----------------------------------|--|---|-----------------------------------|---|
| Term                  | Unit                             | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |                                  |  | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Negative numbers (2)</li> </ul>                         | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Count backwards through zero to include negative numbers.</li> </ul>   |
|                       |                                  |  | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</li> </ul> |
|                       | Unit 3, Addition and subtraction | <ul style="list-style-type: none"> <li>Adding and subtracting 1s, 10s, 100s, 1,000s</li> </ul> | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  |  | 5                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>                 |
|                       |                                  | <ul style="list-style-type: none"> <li>Adding two 4-digit numbers (1)</li> </ul>               | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Adding two 4-digit numbers (2)</li> </ul>               | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Adding two 4-digit numbers (3)</li> </ul>               | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Subtracting two 4-digit numbers (1)</li> </ul>          | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Subtracting two 4-digit numbers (2)</li> </ul>          | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Subtracting two 4-digit numbers (3)</li> </ul>          | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |
|                       |                                  | <ul style="list-style-type: none"> <li>Subtracting two 4-digit numbers (4)</li> </ul>          | 4                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> </ul> |





| Power Maths<br>Year 4 |      |  | National curriculum programmes of study |                                   |  |
|-----------------------|------|--|---|-----------------------------------|--|
| Term                  | Unit | Lesson titles                                      | Year                                    | Domain                            | Pupils should be taught to:  |
|                       |      | ● Equivalent difference                            | 4                                       | Number – number and place value   | ● Round any number to the nearest 10, 100 or 1,000.  |
|                       |      |  | 4                                       | Number – addition and subtraction | ● Estimate and use inverse operations to check answers to a calculation.   |
|                       |      | ● Estimating answers to additions and subtractions | 4                                       | Number – number and place value   | ● Round any number to the nearest 10, 100 or 1,000.  |
|                       |      |  | 4                                       | Number – addition and subtraction | ● Estimate and use inverse operations to check answers to a calculation.   |
|                       |      |  | 5                                       | Number – addition and subtraction | ● Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy (rounding). |
|                       |      | ● Checking strategies                              | 4                                       | Number – addition and subtraction | ● Estimate and use inverse operations to check answers to a calculation.   |
|                       |      | ● Problem solving – addition and subtraction (1)   | 4                                       | Number – addition and subtraction | ● Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.      |
|                       |      |  | 5                                       | Number – addition and subtraction | ● Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.    |
|                       |      | ● Problem solving – addition and subtraction (2)   | 4                                       | Number – addition and subtraction | ● Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.      |
|                       |      |  | 5                                       | Number – addition and subtraction | ● Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.    |
|                       |      | ● Problem solving – addition and subtraction (3)   | 4                                       | Number – addition and subtraction | ● Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.      |
|                       |      |  | 5                                       | Number – addition and subtraction | ● Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.    |
|                       |      | ● Problem solving – addition and subtraction (4)   | 4                                       | Number – addition and subtraction | ● Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.      |

| Power Maths<br>Year 4 |   |  | National curriculum programmes of study |                                      |  |
|-----------------------|---|--|---|--------------------------------------|--|
| Term                  | Unit                                    | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |   |  | 5                                       | Number – addition and subtraction    | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       | Unit 4, Measure – perimeter             | <ul style="list-style-type: none"> <li>Kilometres</li> </ul>                             | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>  |
|                       |   |  | 5                                       | Measurement                          | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Perimeter of a rectangle (1)</li> </ul>           | 3                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure the perimeter of simple 2D shapes.</li> </ul>   |
|                       |   |  | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Perimeter of a rectangle (2)</li> </ul>           | 3                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure the perimeter of simple 2D shapes.</li> </ul>   |
|                       |   |  | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Perimeter of rectilinear shapes (1)</li> </ul>    | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</li> </ul>   |
|                       |   |  | 5                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Perimeter of rectilinear shapes (2)</li> </ul>    | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</li> </ul>   |
|                       |   |  | 5                                       | Measurement                          | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</li> </ul>   |
|                       | Unit 5, Multiplication and division (1) | <ul style="list-style-type: none"> <li>Multiplying by multiples of 10 and 100</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> </ul> |

| Power Maths<br>Year 4 |      |  | National curriculum programmes of study |                                      |  |
|-----------------------|------|--|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing multiples of 10 and 100</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying by 0 and 1</li> </ul>           | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing by 1</li> </ul>                    | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying and dividing by 6</li> </ul>    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul>                                 |
|                       |      |  | 4                                       | Number – number and place value      | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000.</li> </ul>   |
|                       |      |  | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>6 times-table</li> </ul>                    | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul>                                 |
|                       |      |  | 4                                       | Number – number and place value      | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000.</li> </ul>   |

| Power Maths<br>Year 4 |      |   | National curriculum programmes of study |                                      |  |
|-----------------------|------|---|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying and dividing by 9</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul>   |
|                       |      |   | 4                                       | Number – number and place value      | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000.</li> </ul>   |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>9 times-table</li> </ul>                 | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |
|                       |      |   | 4                                       | Number – number and place value      | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000.</li> </ul>   |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying and dividing by 7</li> </ul> | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul>   |

| Power Maths<br>Year 4 |      |  | National curriculum programmes of study |   |  |                                      |   |
|-----------------------|------|--|---|---|--|--------------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |                                      |   |
|                       |      |  | 3                                       | Measurement   | <ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> </ul>   |                                      |   |
|                       |      |  | 4                                       | Number – multiplication and division  | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |                                      |   |
|                       |      |  | 4                                       | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>   |                                      |   |
|                       |      |  | 5                                       | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>   |                                      |   |
|                       |      | <ul style="list-style-type: none"> <li>7 times-table</li> </ul>          | 3                                       | Number – multiplication and division  | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |                                      |   |
|                       |      |  | 4                                       | Number – multiplication and division  | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |                                      |   |
|                       |      | <ul style="list-style-type: none"> <li>11 and 12 times-tables</li> </ul> | 3                                       | Number – multiplication and division  | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> </ul> |                                      |   |
|                       |      |  | 4                                       | Number – multiplication and division  | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |                                      |   |
|                       |      | Textbook 4B  | Unit 6, Multiplication and division (2) | <ul style="list-style-type: none"> <li>Problem solving – addition and multiplication</li> </ul> | 4  | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> </ul> |

| Power Maths<br>Year 4 |      |  | National curriculum programmes of study |                                      |   |
|-----------------------|------|--|---|--------------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:   |
|                       |      |  | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – mixed problems</li> </ul>                 | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> </ul> |
|                       |      |  | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Using written methods to multiply</li> </ul>                | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying a 2-digit number by a 1-digit number</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul>   |
|                       |      |  | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying a 3-digit number by a 1-digit number</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul>   |
|                       |      |  | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – multiplication</li> </ul>                 | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul>   |

| Power Maths<br>Year 4 |      |   | National curriculum programmes of study |                                      |   |
|-----------------------|------|---|---|--------------------------------------|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:   |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying more than two numbers (1)</li> </ul>             | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying more than two numbers (2)</li> </ul>             | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recognise and use factor pairs and commutativity in mental calculations.</li> </ul>  |
|                       |      |   | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – mixed correspondence problems</li> </ul>   | 3                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul>  |
|                       |      |   | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recognise and use factor pairs and commutativity in mental calculations.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing a 2-digit number by a 1-digit number (1)</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recognise and use factor pairs and commutativity in mental calculations.</li> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> </ul> |

| Power Maths<br>Year 4 |                        |   | National curriculum programmes of study |                                      |  |
|-----------------------|------------------------|---|---|--------------------------------------|--|
| Term                  | Unit                   | Lesson titles   | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |                        | <ul style="list-style-type: none"> <li>• Division with remainders</li> </ul>                          | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> <li>• Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul> |
|                       |                        | <ul style="list-style-type: none"> <li>• Dividing a 2-digit number by a 1-digit number (2)</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> </ul>  |
|                       |                        | <ul style="list-style-type: none"> <li>• Dividing a 2-digit number by a 1-digit number (3)</li> </ul> | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> <li>• Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul> |
|                       |                        | <ul style="list-style-type: none"> <li>• Dividing a 3-digit number by a 1-digit number</li> </ul>     | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</li> </ul>  |
|                       |                        | <ul style="list-style-type: none"> <li>• Problem solving – division</li> </ul>                        | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>• Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> </ul>                              |
|                       | Unit 7, Measure – area | <ul style="list-style-type: none"> <li>• What is area?</li> </ul>                                     | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>• Find the area of rectilinear shapes by counting squares.</li> </ul>   |
|                       |                        | <ul style="list-style-type: none"> <li>• Counting squares (1)</li> </ul>                              | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>• Find the area of rectilinear shapes by counting squares.</li> </ul>   |
|                       |                        | <ul style="list-style-type: none"> <li>• Counting squares (2)</li> </ul>                              | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>• Find the area of rectilinear shapes by counting squares.</li> </ul>   |
|                       |                        | <ul style="list-style-type: none"> <li>• Making shapes</li> </ul>                                     | 4                                       | Measurement                          | <ul style="list-style-type: none"> <li>• Find the area of rectilinear shapes by counting squares.</li> </ul>   |



| Power Maths<br>Year 4 |                       |   | National curriculum programmes of study                                     |   |   |  |
|-----------------------|-----------------------|---|---|---|---|--|
| Term                  | Unit                  | Lesson titles   | Year  | Domain  | Pupils should be taught to:   |  |
|                       |                       | <ul style="list-style-type: none"> <li>Comparing area</li> </ul>            | 4   | Measurement   | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>  |  |
|                       | Unit 8, Fractions (1) | <ul style="list-style-type: none"> <li>Tenths and hundredths (1)</li> </ul> | 3   | Number – fractions  | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> </ul>   |  |
|                       |                       |   | 4   | Number – fractions (including decimals)   | <ul style="list-style-type: none"> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> </ul> |  |
|                       |                       |   | 5   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</li> </ul>           |  |
|                       |                       |   | <ul style="list-style-type: none"> <li>Tenths and hundredths (2)</li> </ul> | 3   | Number – fractions  | <ul style="list-style-type: none"> <li>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</li> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> </ul> |
|                       |                       | 4   |   | Number – fractions (including decimals)   | <ul style="list-style-type: none"> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> </ul> |  |
|                       |                       | 5   |   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</li> </ul>           |  |
|                       |                       |   | <ul style="list-style-type: none"> <li>Equivalent fractions (1)</li> </ul>  | 4   | Number – fractions (including decimals)   | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> </ul>   |
|                       |                       |   | <ul style="list-style-type: none"> <li>Equivalent fractions (2)</li> </ul>  | 4   | Number – fractions (including decimals)   | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> </ul>   |
|                       |                       |   | <ul style="list-style-type: none"> <li>Simplifying fractions</li> </ul>     | 4   | Number – fractions (including decimals)   | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> </ul>   |
|                       |                       | 5   |   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</li> </ul>           |  |
|                       | 6                     | Number – fractions (including decimals and percentages)                     |   | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> </ul> |   |  |

| Power Maths<br>Year 4 |                       |  | National curriculum programmes of study |   |   |
|-----------------------|-----------------------|--|---|---|---|
| Term                  | Unit                  | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       |                       | <ul style="list-style-type: none"> <li>Fractions greater than 1 (1)</li> </ul> | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul>  |
|                       |                       | <ul style="list-style-type: none"> <li>Fractions greater than 1 (2)</li> </ul> | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul>  |
|                       | Unit 9, Fractions (2) | <ul style="list-style-type: none"> <li>Adding fractions</li> </ul>             | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> <li>Add and subtract fractions with the same denominator.</li> </ul> |
|                       |                       |  | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |                       | <ul style="list-style-type: none"> <li>Subtracting fractions (1)</li> </ul>    | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> <li>Add and subtract fractions with the same denominator.</li> </ul> |
|                       |                       |  | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |                       | <ul style="list-style-type: none"> <li>Subtracting fractions (2)</li> </ul>    | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> <li>Add and subtract fractions with the same denominator.</li> </ul> |
|                       |                       |  |   | 5   | Number – fractions (including decimals and percentages)   |

| Power Maths<br>Year 4 |      |  | National curriculum programmes of study                      |   |  |   |
|-----------------------|------|--|--|---|--|---|
| Term                  | Unit | Lesson titles  | Year   | Domain  | Pupils should be taught to:  |   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – adding and subtracting fractions (1)</li> </ul> | 4  | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul> |   |
|                       |      |  | 5  | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>   |   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – adding and subtracting fractions (2)</li> </ul> | 4  | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul> |   |
|                       |      |  | 5  | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>   |   |
|                       |      | <ul style="list-style-type: none"> <li>Calculating fractions of a quantity</li> </ul>                    | 4  | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul> |   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – fraction of a quantity (1)</li> </ul>           | 4  | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul> |   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – fraction of a quantity (2)</li> </ul>           | 4  | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li> </ul> |   |
|                       |      | Unit 10,<br>Decimals (1)   | <ul style="list-style-type: none"> <li>Tenths (1)</li> </ul> | 4   | Number – fractions (including decimals)  | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents of any number of tenths or hundredths.</li> </ul>  |
|                       |      |  | <ul style="list-style-type: none"> <li>Tenths (2)</li> </ul> | 4   | Number – fractions (including decimals)  | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents of any number of tenths or hundredths.</li> </ul>  |
|                       |      |  | <ul style="list-style-type: none"> <li>Tenths (3)</li> </ul> | 4   | Number – fractions (including decimals)  | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents of any number of tenths or hundredths.</li> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul> |

| Power Maths<br>Year 4 |      |                      | National curriculum programmes of study |   |   |
|-----------------------|------|----------------------|---|---|---|
| Term                  | Unit | Lesson titles        | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | • Dividing by 10 (1) | 4                                       | Number – fractions (including decimals)                 | • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.   |
|                       |      |                      | 5                                       | Number – multiplication and division                    | • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.  |
|                       |      |                      | 6                                       | Number – fractions (including decimals and percentages) | • Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.   |
|                       |      | • Dividing by 10 (2) | 4                                       | Number – fractions (including decimals)                 | • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.   |
|                       |      |                      | 5                                       | Number – multiplication and division                    | • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.  |
|                       |      |                      | 6                                       | Number – fractions (including decimals and percentages) | • Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.   |
|                       |      | • Hundredths (1)     | 4                                       | Number – fractions (including decimals)                 | • Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.<br>• Recognise and write decimal equivalents of any number of tenths or hundredths. |
|                       |      | • Hundredths (2)     | 4                                       | Number – fractions (including decimals)                 | • Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.<br>• Recognise and write decimal equivalents of any number of tenths or hundredths. |

| Power Maths<br>Year 4 |      |                          | National curriculum programmes of study |   |  |   |   |
|-----------------------|------|--------------------------|---|---|--|---|---|
| Term                  | Unit | Lesson titles            | Year                                    | Domain  | Pupils should be taught to:  |   |   |
|                       |      | • Hundredths (3)         | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</li> </ul> |   |   |
|                       |      | • Dividing by 100        | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</li> </ul>  |   |   |
|                       |      |                          | 5                                       | Number – multiplication and division                    | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>   |   |   |
|                       |      |                          | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>  |   |   |
|                       |      | • Dividing by 10 and 100 | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</li> </ul>  |   |   |
|                       |      |                          | 5                                       | Number – multiplication and division                    | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>   |   |   |
|                       |      |                          | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>  |   |   |
|                       |      | Textbook 4C              | Unit 11, Decimals (2)                   | • Making a whole  | 4  | Number – fractions (including decimals) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator.</li> <li>Recognise and write decimal equivalents of any number of tenths or hundredths.</li> </ul> |

| Power Maths<br>Year 4 |      |                              | National curriculum programmes of study |   |   |   |
|-----------------------|------|------------------------------|---|---|---|---|
| Term                  | Unit | Lesson titles                | Year                                    | Domain  | Pupils should be taught to:   |   |
|                       |      | • Writing decimals           | 4                                       | Number – fractions (including decimals)                 | • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. |   |
|                       |      | • Comparing decimals         | 4                                       | Number – fractions (including decimals)                 | • Compare numbers with the same number of decimal places up to two decimal places.  |   |
|                       |      |                              | 5                                       | Number – fractions (including decimals and percentages) | • Read, write, order and compare numbers with up to three decimal places (two decimal places).  |   |
|                       |      | • Ordering decimals          | 4                                       | Number – fractions (including decimals)                 | • Compare numbers with the same number of decimal places up to two decimal places.  |   |
|                       |      |                              | 5                                       | Number – fractions (including decimals and percentages) | • Read, write, order and compare numbers with up to three decimal places (two decimal places).  |   |
|                       |      | • Rounding decimals          | 4                                       | Number – fractions (including decimals)                 | • Round decimals with one decimal place to the nearest whole number.  |   |
|                       |      |                              | 5                                       | Number – fractions (including decimals and percentages) | • Round decimals with two decimal places to the nearest whole number and to one decimal place (decimals with one decimal place).                          |   |
|                       |      | • Halves and quarters        | 4                                       | Number – fractions (including decimals)                 | • Recognise and write decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ .  |   |
|                       |      |                              | 5                                       | Number – fractions (including decimals and percentages) | • Read and write decimal numbers as fractions (for example, $0.71 = \frac{71}{100}$ ).  |   |
|                       |      | • Problem solving – decimals | 4                                       | Number – fractions (including decimals)                 | • Solve simple measure and money problems involving fractions and decimals to two decimal places.   |   |
|                       |      | Unit 12, Money               | • Pounds and pence                      | 4   | Number – fractions (including decimals)   | • Solve simple measure and money problems involving fractions and decimals to two decimal places. |
|                       |      |                              |   | 4   | Measurement   | • Estimate, compare and calculate different measures, including money in pounds and pence.        |

| Power Maths<br>Year 4 |      |                                      | National curriculum programmes of study |   |   |
|-----------------------|------|--------------------------------------|---|---|---|
| Term                  | Unit | Lesson titles                        | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | ● Pounds, tenths and hundredths      | 4                                       | Number – fractions (including decimals)                 | ● Solve simple measure and money problems involving fractions and decimals to two decimal places. |
|                       |      |                                      | 4                                       | Measurement   | ● Estimate, compare and calculate different measures, including money in pounds and pence.        |
|                       |      | ● Ordering amounts of money          | 4                                       | Number – fractions (including decimals)                 | ● Solve simple measure and money problems involving fractions and decimals to two decimal places. |
|                       |      |                                      | 4                                       | Measurement   | ● Estimate, compare and calculate different measures, including money in pounds and pence.        |
|                       |      |                                      | 5                                       | Number – fractions (including decimals and percentages) | ● Read, write, order and compare numbers with up to three decimal places (two decimal places).    |
|                       |      | ● Rounding money                     | 4                                       | Number – fractions (including decimals)                 | ● Solve simple measure and money problems involving fractions and decimals to two decimal places. |
|                       |      |                                      | 4                                       | Measurement   | ● Estimate, compare and calculate different measures, including money in pounds and pence.        |
|                       |      | ● Using rounding to estimate money   | 4                                       | Measurement   | ● Estimate, compare and calculate different measures, including money in pounds and pence.        |
|                       |      | ● Problem solving – pounds and pence | 3                                       | Measurement   | ● Add and subtract amounts of money to give change, using both £ and p in practical contexts.     |
|                       |      |                                      | 4                                       | Measurement   | ● Estimate, compare and calculate different measures, including money in pounds and pence.        |
|                       |      |                                      | 5                                       | Number – fractions (including decimals and percentages) | ● Solve problems involving number up to three decimal places (two decimal places).                |



| Power Maths<br>Year 4 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      |   | 6                                       | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – multiplication and division</li> </ul> | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>   |
|                       |      |   | 4                                       | Measurement   | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>  |
|                       |      |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places (two decimal places).</li> </ul>  |
|                       |      |   | 6                                       | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Solving two-step problems</li> </ul>                     | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>   |
|                       |      |   | 4                                       | Measurement   | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>  |
|                       |      |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places (two decimal places).</li> </ul>  |
|                       |      |   | 6                                       | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – money</li> </ul>                       | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>   |



| Power Maths<br>Year 4 |               |   | National curriculum programmes of study |   |  |
|-----------------------|---------------|---|---|---|--|
| Term                  | Unit          | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:  |
|                       |               |   | 4                                       | Measurement   | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>   |
|                       |               |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places (two decimal places).</li> </ul>   |
|                       |               |   | 6                                       | Measurement   | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul>  |
|                       | Unit 13, Time | <ul style="list-style-type: none"> <li>Units of time (1)</li> <li>Units of time (2)</li> <li>Converting times (1)</li> <li>Converting times (2)</li> <li>Problem solving – units of time</li> </ul> | 4                                       | Measurement   | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>  |
|                       |               |   | 4                                       | Measurement   | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>  |
|                       |               |   | 3                                       | Measurement   | <ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> </ul>   |
|                       |               |   |   |   | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks.</li> </ul> |
|                       |               |   | 3                                       | Measurement   | <ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> </ul>   |
|                       |               |   |   |   | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks.</li> </ul> |
|                       |               |   | 3                                       | Measurement   | <ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> </ul>   |

| Power Maths<br>Year 4 |                     |                         | National curriculum programmes of study |             |   |  |
|-----------------------|---------------------|-------------------------|---|-------------|---|--|
| Term                  | Unit                | Lesson titles           | Year                                    | Domain      | Pupils should be taught to:   |  |
|                       |                     |                         | 4                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul> |  |
|                       |                     |                         | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>  |  |
|                       | Unit 14, Statistics | • Charts and tables (1) | 3                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>   |  |
|                       |                     |                         | 4                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> </ul>   |  |
|                       |                     |                         | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Complete, read and interpret information in tables, including timetables (tables).</li> </ul>  |  |
|                       |                     |                         | • Charts and tables (2)                 | 3           | Statistics  | <ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables.</li> <li>Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.</li> </ul> |
|                       |                     | 4                       |   | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>   |  |
|                       |                     |                         | • Line graphs (1)                       | 4           | Statistics  | <ul style="list-style-type: none"> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> </ul>  |
|                       |                     | 5                       |   | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>  |  |
|                       |                     |                         | • Line graphs (2)                       | 4           | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>  |
|                       |                     | 5                       |   | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>  |  |

| Power Maths<br>Year 4 |  |  | National curriculum programmes of study |                                 |  |
|-----------------------|--|--|---|---------------------------------|--|
| Term                  | Unit                                     | Lesson titles  | Year                                    | Domain                          | Pupils should be taught to:  |
|                       |  | <ul style="list-style-type: none"> <li>Problem solving – graphs</li> </ul>                 | 3                                       | Statistics                      | <ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables.</li> <li>Solve one-step and two-step questions (for example, ‘How many more?’ and ‘How many fewer?’) using information presented in scaled bar charts and pictograms and tables.</li> </ul> |
|                       |  |  | 4                                       | Statistics                      | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>  |
|                       | Unit 15, Geometry – angles and 2D shapes | <ul style="list-style-type: none"> <li>Identifying angles</li> </ul>                       | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> </ul>  |
|                       |  |  | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Comparing and ordering angles</li> </ul>            | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> </ul>  |
|                       |  |  | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Identifying regular and irregular shapes</li> </ul> | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>  |
|                       |  |  | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Classifying triangles</li> </ul>                    | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Classifying and comparing quadrilaterals</li> </ul> | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Deducing facts about shapes</li> </ul>              | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Lines of symmetry inside a shape</li> </ul>         | 4                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify lines of symmetry in 2D shapes presented in different orientations.</li> </ul>   |

| Power Maths<br>Year 4 |  |   | National curriculum programmes of study |                                   |  |
|-----------------------|--|---|---|-----------------------------------|--|
| Term                  | Unit                                       | Lesson titles   | Year                                    | Domain                            | Pupils should be taught to:  |
|                       |  | <ul style="list-style-type: none"> <li>• Lines of symmetry outside a shape</li> </ul> | 4                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>• Identify lines of symmetry in 2D shapes presented in different orientations.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>• Completing a symmetric figure</li> </ul>     | 4                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>• Complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>• Completing a symmetric shape</li> </ul>      | 4                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>• Complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul>  |
|                       | Unit 16, Geometry – position and direction | <ul style="list-style-type: none"> <li>• Describing position (1)</li> </ul>           | 4                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Describe positions on a 2D grid as coordinates in the first quadrant.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>• Describing position (2)</li> </ul>           | 4                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Describe positions on a 2D grid as coordinates in the first quadrant.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>• Drawing on a grid</li> </ul>                 | 4                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Plot specified points and draw sides to complete a given polygon.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>• Reasoning on a grid</li> </ul>               | 4                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Describe positions on a 2D grid as coordinates in the first quadrant.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>• Moving on a grid</li> </ul>                  | 4                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Describe movements between positions as translations of a given unit to the left/right and up/down.</li> </ul>  |
|                       |  |   | 5                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li> </ul> |
|                       |  |   | 6                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>• Describing a movement on a grid</li> </ul>   | 4                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Describe movements between positions as translations of a given unit to the left/right and up/down.</li> </ul>  |
|                       |  |   | 5                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li> </ul> |
|                       |  |   | 6                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>  |

## Year 5

| Power Maths<br>Year 5 |                                    |   | National curriculum programmes of study |                                 |  |
|-----------------------|------------------------------------|---|---|---------------------------------|--|
| Term                  | Unit                               | Lesson titles   | Year                                    | Domain                          | Pupils should be taught to:  |
| Textbook 5A           | Unit 1, Place value within 100,000 | <ul style="list-style-type: none"> <li>Numbers to 10,000</li> </ul>                         | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (10,000).</li> <li>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</li> </ul> |
|                       |                                    |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (10,000).</li> </ul>  |
|                       |                                    | <ul style="list-style-type: none"> <li>Rounding to the nearest 10, 100 and 1,000</li> </ul> | 4                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> </ul>  |
|                       |                                    |   | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 (10, 100 and 1,000).</li> </ul>  |
|                       |                                    |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>   |
|                       |                                    | <ul style="list-style-type: none"> <li>10,000s, 1,000s, 100s, 10s and 1s (1)</li> </ul>     | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |
|                       |                                    |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (10,000).</li> </ul>  |
|                       |                                    | <ul style="list-style-type: none"> <li>10,000s, 1,000s, 100s, 10s and 1s (2)</li> </ul>     | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Solve number problems and practical problems that involve all of the above.</li> </ul>  |
|                       |                                    |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (10,000).</li> </ul>  |
|                       |                                    | <ul style="list-style-type: none"> <li>The number line to 100,000</li> </ul>                | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).</li> </ul>  |
|                       |                                    |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (100,000).</li> </ul>   |

| Power Maths<br>Year 5 |   |   | National curriculum programmes of study   |                                 |   |  |
|-----------------------|---|---|---|---------------------------------|---|--|
| Term                  | Unit  | Lesson titles   | Year  | Domain                          | Pupils should be taught to:   |  |
|                       |   | <ul style="list-style-type: none"> <li>Comparing and ordering numbers to 100,000</li> </ul> | 4   | Number – number and place value | <ul style="list-style-type: none"> <li>Order and compare numbers beyond 1,000.</li> </ul>   |  |
|                       |   |   | 5   | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).</li> </ul> |  |
|                       |   |   | 6   | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (100,000).</li> </ul>      |  |
|                       |   |   | <ul style="list-style-type: none"> <li>Rounding numbers within 100,000</li> </ul>                 | 4                               | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> </ul>  |
|                       |   |   |   | 5                               | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.</li> </ul>  |
|                       |   |   |   | 6                               | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>   |
|                       |   |   | <ul style="list-style-type: none"> <li>Roman numerals to 10,000</li> </ul>                        | 4                               | Number – number and place value   | <ul style="list-style-type: none"> <li>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</li> <li>Identify, represent and estimate numbers using different representations.</li> </ul> |
|                       |   |   |   | 5                               | Number – number and place value   | <ul style="list-style-type: none"> <li>Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.</li> </ul>  |
|                       |   | Unit 2, Place value within 1,000,000  | <ul style="list-style-type: none"> <li>100,000s, 10,000s, 1,000s, 100s, 10s and 1s (1)</li> </ul> | 5                               | Number – number and place value   | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |
|                       | 6   |   |   | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (1,000,000).</li> </ul>    |  |
|                       | <ul style="list-style-type: none"> <li>100,000s, 10,000s, 1,000s, 100s, 10s and 1s (2)</li> </ul> |   | 5   | Number – number and place value | <ul style="list-style-type: none"> <li>Solve number problems and practical problems that involve all of the above.</li> </ul>                                   |  |
|                       |   |   | 6   | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (1,000,000).</li> </ul>    |  |
|                       | <ul style="list-style-type: none"> <li>Number line to 1,000,000</li> </ul>                        |   | 5   | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>           |  |

| Power Maths<br>Year 5 |                                  |  | National curriculum programmes of study |                                   |   |
|-----------------------|----------------------------------|--|---|-----------------------------------|---|
| Term                  | Unit                             | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |                                  |  | 6                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (1,000,000).</li> </ul>                            |
|                       |                                  | <ul style="list-style-type: none"> <li>Comparing and ordering numbers to 1,000,000</li> </ul>      | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Order and compare numbers beyond 1,000.</li> </ul>   |
|                       |                                  |  | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>                                   |
|                       |                                  |  | 6                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. (1,000,000)</li> </ul>                            |
|                       |                                  | <ul style="list-style-type: none"> <li>Rounding numbers to a 1,000,000</li> </ul>                  | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100 or 1,000.</li> </ul>   |
|                       |                                  |  | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.</li> </ul>   |
|                       |                                  |  | 6                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>  |
|                       |                                  | <ul style="list-style-type: none"> <li>Negative numbers</li> </ul>                                 | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Count backwards through zero to include negative numbers.</li> </ul>   |
|                       |                                  |  | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</li> </ul> |
|                       |                                  |  | 6                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Use negative numbers in context, and calculate intervals across zero.</li> </ul>   |
|                       |                                  | <ul style="list-style-type: none"> <li>Counting in 10s, 100s, 1,000s, 10,000s</li> </ul>           | 4                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1,000 (1,000).</li> </ul>  |
|                       |                                  |  | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</li> </ul>  |
|                       |                                  | <ul style="list-style-type: none"> <li>Number sequences</li> </ul>                                 | 5                                       | Number – number and place value   | <ul style="list-style-type: none"> <li>Solve number problems and practical problems that involve all of the above.</li> </ul>   |
|                       | Unit 3, Addition and subtraction | <ul style="list-style-type: none"> <li>Adding whole numbers with more than 4 digits (1)</li> </ul> | 5                                       | Number – addition and subtraction | <ul style="list-style-type: none"> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</li> </ul>   |



| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Adding whole numbers with more than 4 digits (2)</li> </ul>      | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting whole numbers with more than 4 digits (1)</li> </ul> | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting whole numbers with more than 4 digits (2)</li> </ul> | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Using rounding to estimate and check answers</li> </ul>          | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li> </ul>                       |
|                       |      | <ul style="list-style-type: none"> <li>Mental addition and subtraction (1)</li> </ul>                   | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally with increasingly large numbers.</li> </ul>  |
|                       |      |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Perform mental calculations, including with mixed operations and large numbers.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Mental addition and subtraction (2)</li> </ul>                   | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally with increasingly large numbers.</li> </ul>  |
|                       |      |   | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>               |
|                       |      |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Perform mental calculations, including with mixed operations and large numbers.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Using inverse operations</li> </ul>                              | 4                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Estimate and use inverse operations to check answers to a calculation.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – addition and subtraction (1)</li> </ul>        | 4                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>                 |
|                       |      |   | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>               |



| Power Maths<br>Year 5 |                           |  | National curriculum programmes of study |   |  |
|-----------------------|---------------------------|--|---|---|--|
| Term                  | Unit                      | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |
|                       |                           |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       |                           | <ul style="list-style-type: none"> <li>Problem solving – addition and subtraction (2)</li> </ul> | 4                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       |                           |  | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       |                           |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       | Unit 4, Graphs and tables | <ul style="list-style-type: none"> <li>Interpreting tables</li> </ul>                            | 4                                       | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>  |
|                       |                           |  | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>  |
|                       |                           | <ul style="list-style-type: none"> <li>Two-way tables</li> </ul>                                 | 4                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul> |
|                       |                           |  | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>  |
|                       |                           | <ul style="list-style-type: none"> <li>Interpreting line graphs (1)</li> </ul>                   | 4                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul> |
|                       |                           |  | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>   |

| Power Maths<br>Year 5 |   |  | National curriculum programmes of study |   |   |
|-----------------------|---|--|---|---|---|
| Term                  | Unit                                    | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       |   |  | 6                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems (line graphs).</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Interpreting line graphs (2)</li> </ul> | 4                                       | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>   |
|                       |   |  | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>  |
|                       |   |  | 6                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems (line graphs).</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Drawing line graphs</li> </ul>          | 4                                       | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>   |
|                       |   |  | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>  |
|                       |   |  | 6                                       | Statistics  | <ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems (line graphs).</li> </ul>   |
|                       | Unit 5, Multiplication and division (1) | <ul style="list-style-type: none"> <li>Multiples</li> </ul>                    | 4                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>   |
|                       |   |  | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li> </ul> |
|                       |   |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>  |

| Power Maths<br>Year 5 |      |                 | National curriculum programmes of study |   |  |
|-----------------------|------|-----------------|---|---|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:  |
|                       |      | • Factors       | 4                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>Recognise and use factor pairs and commutativity in mental calculations.</li> </ul>                        |
|                       |      |                 | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Establish whether a number up to 100 is prime and recall prime numbers up to 19.</li> </ul> |
|                       |      |                 | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>   |
|                       |      | • Prime numbers | 4                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |
|                       |      |                 | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</li> </ul>   |
|                       |      |                 | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>   |
|                       |      | • Using factors | 4                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>  |
|                       |      |                 | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li> </ul>  |
|                       |      |                 | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>   |

| Power Maths<br>Year 5 |      |  | National curriculum programmes of study |                                      |   |
|-----------------------|------|--|---|--------------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Squares</li> </ul>  | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>   |
|                       |      |  | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recognise and use square numbers and cube numbers, and the notation for squared (<math>^2</math>) and cubed (<math>^3</math>).</li> <li>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Cubes</li> </ul>  | 4                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> </ul>   |
|                       |      |  | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Recognise and use square numbers and cube numbers, and the notation for squared (<math>^2</math>) and cubed (<math>^3</math>).</li> <li>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Inverse operations</li> </ul>   | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying whole numbers by 10, 100 and 1,000</li> </ul>             | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing whole numbers by 10, 100 and 1,000</li> </ul>                | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> <li>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying and dividing by multiples of 10, 100 and 1,000</li> </ul> | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>  |

| Power Maths<br>Year 5 |                                      |                             | National curriculum programmes of study |             |  |
|-----------------------|--------------------------------------|-----------------------------|---|-------------|--|
| Term                  | Unit                                 | Lesson titles               | Year                                    | Domain      | Pupils should be taught to:  |
|                       | Unit 6, Measure – area and perimeter | • Measuring perimeter       | 4                                       | Measurement | • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.   |
|                       |                                      |                             | 5                                       | Measurement | • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.   |
|                       |                                      | • Calculating perimeter (1) | 4                                       | Measurement | • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.   |
|                       |                                      |                             | 5                                       | Measurement | • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.   |
|                       |                                      | • Calculating perimeter (2) | 4                                       | Measurement | • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.   |
|                       |                                      |                             | 5                                       | Measurement | • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.   |
|                       |                                      | • Calculating area (1)      | 4                                       | Measurement | • Find the area of rectilinear shapes by counting squares.   |
|                       |                                      |                             | 5                                       | Measurement | • Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes. |
|                       |                                      | • Calculating area (2)      | 5                                       | Measurement | • Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes. |
|                       |                                      |                             | 6                                       | Algebra     | • Use simple formulae.   |
|                       |                                      |                             | 6                                       | Measurement | • Recognise when it is possible to use formulae for area and volume of shapes.   |

| Power Maths<br>Year 5 |   |  | National curriculum programmes of study                           |                                      |  |
|-----------------------|---|--|---|--------------------------------------|--|
| Term                  | Unit                                    | Lesson titles  | Year  | Domain                               | Pupils should be taught to:  |
|                       |   | <ul style="list-style-type: none"> <li>Comparing area</li> </ul>   | 5   | Measurement                          | <ul style="list-style-type: none"> <li>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.</li> </ul> |
|                       |   |  | 6   | Algebra                              | <ul style="list-style-type: none"> <li>Use simple formulae.</li> </ul>   |
|                       |   |  | 6   | Measurement                          | <ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> </ul>   |
|                       |   |  | <ul style="list-style-type: none"> <li>Estimating area</li> </ul> | 5                                    | Measurement  |
| Textbook 5B           | Unit 7, Multiplication and division (2) | <ul style="list-style-type: none"> <li>Multiplying numbers up to 4 digits by a 1-digit number</li> </ul> | 4   | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> </ul>  |
|                       |   |  | 5   | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Multiplying 2-digit numbers (1)</li> </ul>                        | 5   | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply and divide numbers mentally drawing upon known facts.</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Multiplying 2-digit numbers (2)</li> </ul>                        | 5   | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply and divide numbers mentally drawing upon known facts.</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Multiplying 2-digit numbers (3)</li> </ul>                        | 5   | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Multiplying a 3-digit number by a 2-digit number</li> </ul>       | 5   | Number – multiplication and division | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>  |

| Power Maths<br>Year 5 |                       |   | National curriculum programmes of study                 |   |   |
|-----------------------|-----------------------|---|---|---|---|
| Term                  | Unit                  | Lesson titles   | Year  | Domain  | Pupils should be taught to:   |
|                       |                       | <ul style="list-style-type: none"> <li>• Multiplying a 4-digit number by a 2-digit number</li> </ul>        | 5   | Number – multiplication and division  | <ul style="list-style-type: none"> <li>• Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>             |
|                       |                       |   | 6   | Number – addition, subtraction, multiplication and division   | <ul style="list-style-type: none"> <li>• Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</li> </ul>                               |
|                       |                       | <ul style="list-style-type: none"> <li>• Dividing up to a 4-digit number by a 1-digit number (1)</li> </ul> | 5   | Number – multiplication and division  | <ul style="list-style-type: none"> <li>• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</li> </ul> |
|                       |                       | <ul style="list-style-type: none"> <li>• Dividing up to a 4-digit number by a 1-digit number (2)</li> </ul> | 5   | Number – multiplication and division  | <ul style="list-style-type: none"> <li>• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</li> </ul> |
|                       |                       | <ul style="list-style-type: none"> <li>• Division with remainders (1)</li> </ul>                            | 5   | Number – multiplication and division  | <ul style="list-style-type: none"> <li>• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</li> </ul> |
|                       |                       | <ul style="list-style-type: none"> <li>• Division with remainders (2)</li> </ul>                            | 5   | Number – multiplication and division  | <ul style="list-style-type: none"> <li>• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</li> </ul> |
|                       |                       | <ul style="list-style-type: none"> <li>• Problem solving – division with remainders</li> </ul>              | 5   | Number – multiplication and division  | <ul style="list-style-type: none"> <li>• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</li> </ul> |
|                       | Unit 8, Fractions (1) | <ul style="list-style-type: none"> <li>• Equivalent fractions</li> </ul>                                    | 4   | Number – fractions (including decimals)   | <ul style="list-style-type: none"> <li>• Recognise and show, using diagrams, families of common equivalent fractions.</li> </ul>  |
|                       |                       | 5   | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</li> </ul> |   |

| Power Maths<br>Year 5 |      |  | National curriculum programmes of study |   |   |
|-----------------------|------|--|---|---|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Converting improper fractions to mixed numbers</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Converting mixed numbers to improper fractions</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Number sequences</li> </ul>                               | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Comparing and ordering fractions (1)</li> </ul>           | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Comparing and ordering fractions (2)</li> </ul>           | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> </ul> |
|                       |      |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Fractions as division (1)</li> </ul>                      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Fractions as division (2)</li> </ul>                      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> </ul>   |



| Power Maths<br>Year 5 |                       |  | National curriculum programmes of study |   |   |
|-----------------------|-----------------------|--|---|---|---|
| Term                  | Unit                  | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       |                       |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, <math>\frac{3}{8}</math>).</li> </ul>   |
|                       | Unit 9, Fractions (2) | <ul style="list-style-type: none"> <li>Adding and subtracting fractions with the same denominator</li> </ul> | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator.</li> </ul>   |
|                       |                       |  | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |                       | <ul style="list-style-type: none"> <li>Adding and subtracting fractions (1)</li> </ul>                       | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |                       |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Adding and subtracting fractions (2)</li> </ul>                       | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |                       |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Adding fractions (1)</li> </ul>                                       | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |
|                       |                       |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |

| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Adding fractions (2)</li> </ul>      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding fractions (3)</li> </ul>      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting fractions (1)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |

| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting fractions (2)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting fractions (3)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |



| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Subtracting fractions (4)</li> </ul>                 | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul> |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – mixed word problems (1)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – mixed word problems (2)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |

| Power Maths<br>Year 5 |                           |  | National curriculum programmes of study |   |   |
|-----------------------|---------------------------|--|---|---|---|
| Term                  | Unit                      | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       | Unit 10,<br>Fractions (3) | <ul style="list-style-type: none"> <li>• Multiplying fractions (1)</li> </ul>        | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul> |
|                       |                           | <ul style="list-style-type: none"> <li>• Multiplying fractions (2)</li> </ul>        | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul> |
|                       |                           | <ul style="list-style-type: none"> <li>• Multiplying fractions (3)</li> </ul>        | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul> |
|                       |                           | <ul style="list-style-type: none"> <li>• Multiplying fractions (4)</li> </ul>        | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul> |
|                       |                           | <ul style="list-style-type: none"> <li>• Calculating fractions of amounts</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul>  |

| Power Maths<br>Year 5 |                                   |   | National curriculum programmes of study |   |   |
|-----------------------|-----------------------------------|---|---|---|---|
| Term                  | Unit                              | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |                                   | <ul style="list-style-type: none"> <li>Using fractions as operators</li> </ul>          | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number (for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>).</li> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul> |
|                       |                                   | <ul style="list-style-type: none"> <li>Problem solving – mixed word problems</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul>  |
|                       | Unit 11, Decimals and percentages | <ul style="list-style-type: none"> <li>Writing decimals (1)</li> </ul>                  | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> </ul>   |
|                       |                                   | <ul style="list-style-type: none"> <li>Writing decimals (2)</li> </ul>                  | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> </ul>   |
|                       |                                   | <ul style="list-style-type: none"> <li>Decimals as fractions (1)</li> </ul>             | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math>.</li> </ul>   |
|                       |                                   |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read and write decimal numbers as fractions (for example, <math>0.71 = \frac{71}{100}</math>).</li> </ul>  |
|                       |                                   | <ul style="list-style-type: none"> <li>Decimals as fractions (2)</li> </ul>             | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math>.</li> </ul>   |
|                       |                                   |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read and write decimal numbers as fractions (for example, <math>0.71 = \frac{71}{100}</math>).</li> </ul>  |
|                       |                                   | <ul style="list-style-type: none"> <li>Understanding thousandths</li> </ul>             | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math>.</li> </ul>   |
|                       |                                   |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read and write decimal numbers as fractions (for example, <math>0.71 = \frac{71}{100}</math>).</li> </ul>  |

| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |  |
|-----------------------|------|---|---|---|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>            |
|                       |      | <ul style="list-style-type: none"> <li>Writing thousandths as decimals</li> </ul>     | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math>.</li> </ul>  |
|                       |      |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read and write decimal numbers as fractions (for example, <math>0.71 = \frac{71}{100}</math>).</li> </ul>   |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>            |
|                       |      | <ul style="list-style-type: none"> <li>Ordering and comparing decimals (1)</li> </ul> | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Compare numbers with the same number of decimal places up to two decimal places</li> </ul>  |
|                       |      |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Ordering and comparing decimals (2)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Rounding decimals</li> </ul>                   | 4                                       | Number – fractions (including decimals)                 | <ul style="list-style-type: none"> <li>Round decimals with one decimal place to the nearest whole number.</li> </ul>   |
|                       |      |   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Round decimals with two decimal places to the nearest whole number and to one decimal place.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Understanding percentages</li> </ul>           | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.</li> </ul> |

| Power Maths<br>Year 5 |                   |  | National curriculum programmes of study |   |   |
|-----------------------|-------------------|--|---|---|---|
| Term                  | Unit              | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       |                   | <ul style="list-style-type: none"> <li>Percentages as fractions and decimals</li> </ul>          | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.</li> </ul>  |
|                       |                   |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>  |
|                       |                   | <ul style="list-style-type: none"> <li>Equivalent fractions, decimals and percentages</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.</li> <li>Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul> |
|                       |                   |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>  |
| Textbook 5C           | Unit 12, Decimals | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (1)</li> </ul>            | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |                   | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (2)</li> </ul>            | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |                   | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (3)</li> </ul>            | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |                   | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (4)</li> </ul>            | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |



| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (5)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (6)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (7)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting decimals (8)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Decimal sequences</li> </ul>                   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – decimals (1)</li> </ul>      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – decimals (2)</li> </ul>      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying decimals by 10</li> </ul>          | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li> <li>Solve problems involving number up to three decimal places.</li> </ul>         |
|                       |      |   | 5                                       | Number – multiplication and division                    | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul> |

| Power Maths<br>Year 5 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying decimals by 10, 100 and 1,000</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li> <li>Solve problems involving number up to three decimal places.</li> </ul>         |
|                       |      |   | 5                                       | Number – multiplication and division                    | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Dividing decimals by 10</li> </ul>                   | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li> <li>Solve problems involving number up to three decimal places.</li> </ul>         |
|                       |      |   | 5                                       | Number – multiplication and division                    | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Dividing decimals by 10, 100 and 1,000</li> </ul>    | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li> <li>Solve problems involving number up to three decimal places.</li> </ul>         |
|                       |      |   | 5                                       | Number – multiplication and division                    | <ul style="list-style-type: none"> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</li> </ul>  |

| Power Maths<br>Year 5 |   |   | National curriculum programmes of study |   |  |
|-----------------------|---|---|---|---|--|
| Term                  | Unit  | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:  |
|                       |   |   | 6                                       | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>  |
|                       | Unit 13, Geometry – properties of shapes (1)  | <ul style="list-style-type: none"> <li>Measuring angles in degrees</li> </ul>     | 5                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total 360°)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total 180°)</li> <li>other multiples of 90°.</li> </ul> </li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Measuring with a protractor (1)</li> </ul> | 4                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> </ul>  |
|                       |   |   | 5                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> <li>Draw given angles, and measure them in degrees (°).</li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Measuring with a protractor (2)</li> </ul> | 4                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> </ul>  |
|                       |   |   | 5                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> <li>Draw given angles, and measure them in degrees (°).</li> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total 360°)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total 180°)</li> <li>other multiples of 90°.</li> </ul> </li> </ul> |
|                       | <ul style="list-style-type: none"> <li>Drawing lines and angles accurately</li> </ul> | 5   | Geometry – properties of shapes         | <ul style="list-style-type: none"> <li>Draw given angles, and measure them in degrees (°).</li> </ul> |  |

| Power Maths<br>Year 5 |      |  | National curriculum programmes of study  |                                 |   |  |
|-----------------------|------|--|--|---------------------------------|---|--|
| Term                  | Unit | Lesson titles  | Year   | Domain                          | Pupils should be taught to:   |  |
|                       |      | <ul style="list-style-type: none"> <li>Calculating angles on a straight line</li> </ul>    | 5  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> </ul> |  |
|                       |      |  | 6  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>   |  |
|                       |      | <ul style="list-style-type: none"> <li>Calculating angles around a point</li> </ul>        | 5  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> </ul> |  |
|                       |      |  | 6  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>   |  |
|                       |      | <ul style="list-style-type: none"> <li>Calculating lengths and angles in shapes</li> </ul> | 5  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> </ul>   |  |
|                       |      |  | 6  | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>   |  |
|                       |      | Unit 14, Geometry – properties of shapes (2)   | <ul style="list-style-type: none"> <li>Recognising and drawing parallel lines</li> </ul> | 5                               | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> </ul> |

| Power Maths<br>Year 5   |      |  | National curriculum programmes of study   |                                 |   |
|---|------|--|---|---------------------------------|---|
| Term  | Unit | Lesson titles  | Year  | Domain                          | Pupils should be taught to:   |
|   |      | <ul style="list-style-type: none"> <li>Recognising and drawing perpendicular lines</li> </ul>      | 5   | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> </ul>  |
|   |      |  | 6   | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> </ul>   |
|   |      | <ul style="list-style-type: none"> <li>Reasoning about parallel and perpendicular lines</li> </ul> | 5   | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw given angles, and measure them in degrees (<math>^\circ</math>).</li> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> </ul> |
|   |      |  | 6   | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> <li>Draw 2D shapes using given dimensions and angles.</li> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>   |
|   |      | <ul style="list-style-type: none"> <li>Regular and irregular polygons</li> </ul>                   | 5   | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul>   |
|   |      |  | 6   | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>  |
| <ul style="list-style-type: none"> <li>Reasoning about 3D shapes</li> </ul> | 5    | Geometry – properties of shapes  | <ul style="list-style-type: none"> <li>Identify 3D shapes, including cubes and other cuboids, from 2D representations.</li> </ul> |                                 |   |

| Power Maths<br>Year 5 |  |                                | National curriculum programmes of study |                                   |  |
|-----------------------|--|--------------------------------|---|-----------------------------------|--|
| Term                  | Unit                                       | Lesson titles                  | Year                                    | Domain                            | Pupils should be taught to:  |
|                       | Unit 15, Geometry – position and direction | ● Reflection                   | 4                                       | Geometry – properties of shapes   | ● Complete a simple symmetric figure with respect to a specific line of symmetry.  |
|                       |  |                                | 5                                       | Geometry – position and direction | ● Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.           |
|                       |  | ● Reflection with coordinates  | 4                                       | Geometry – position and direction | ● Describe positions on a 2D grid as coordinates in the first quadrant.  |
|                       |  |                                | 5                                       | Geometry – position and direction | ● Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.           |
|                       |  |                                | 6                                       | Geometry – position and direction | ● Describe positions on the full coordinate grid (all four quadrants) (first quadrant).<br>● Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |
|                       |  | ● Translation                  | 4                                       | Geometry – position and direction | ● Describe movements between positions as translations of a given unit to the left/right and up/down.  |
|                       |  |                                | 5                                       | Geometry – position and direction | ● Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.           |
|                       |  |                                | 6                                       | Geometry – position and direction | ● Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.  |
|                       |  | ● Translation with coordinates | 4                                       | Geometry – position and direction | ● Describe positions on a 2D grid as coordinates in the first quadrant.<br>● Describe movements between positions as translations of a given unit to the left/right and up/down.     |
|                       |  |                                | 5                                       | Geometry – position and direction | ● Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.           |

| Power Maths<br>Year 5 |  |                    | National curriculum programmes of study |                                   |   |  |
|-----------------------|--|--------------------|---|-----------------------------------|---|--|
| Term                  | Unit                                   | Lesson titles      | Year                                    | Domain                            | Pupils should be taught to:   |  |
|                       | Unit 16, Measure –<br>converting units | • Metric units (1) | 6                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>   |  |
|                       |  |                    | 4                                       | Measurement                       | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>   |  |
|                       |  |                    | 5                                       | Measurement                       | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> </ul> |  |
|                       |  |                    |   | 6                                 | Measurement   | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul>   |
|                       |  |                    | • Metric units (2)                      | 4                                 | Measurement   | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>  |
|                       |  |                    |   | 5                                 | Measurement   | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> </ul>  |
|                       |  |                    |   | 6                                 | Measurement   | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul>   |
|                       |  |                    | • Metric units (3)                      | 4                                 | Measurement   | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>  |
|                       |  |                    |   | 5                                 | Measurement   | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> <li>Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.</li> </ul> |

| Power Maths<br>Year 5 |      |  | National curriculum programmes of study |             |  |
|-----------------------|------|--|---|-------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain      | Pupils should be taught to:  |
|                       |      |  | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Metric units (4)</li> </ul>           | 4                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> </ul>  |
|                       |      |  | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> <li>Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.</li> </ul> |
|                       |      |  | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul>   |
|                       |      |  | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Imperial units of length</li> </ul>   | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Imperial units of mass</li> </ul>     | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Imperial units of capacity</li> </ul> | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Converting units of time</li> </ul>   | 4                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of measure (for example, kilometre to metre; hour to minute).</li> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>  |



| Power Maths<br>Year 5 |  |   | National curriculum programmes of study |             |   |
|-----------------------|--|---|---|-------------|---|
| Term                  | Unit                                   | Lesson titles   | Year                                    | Domain      | Pupils should be taught to:   |
|                       |  |   | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Timetables</li> </ul>                | 4                                       | Measurement | <ul style="list-style-type: none"> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>                                    |
|                       |  |   | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>  |
|                       |  |   | 5                                       | Statistics  | <ul style="list-style-type: none"> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Problem solving – measure</li> </ul> | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.</li> </ul> |
|                       |  |   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul> |
|                       | Unit 17, Measure – volume and capacity | <ul style="list-style-type: none"> <li>What is volume?</li> </ul>           | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)) and capacity (for example, using water).</li> </ul>          |
|                       |  | <ul style="list-style-type: none"> <li>Comparing volumes</li> </ul>         | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)) and capacity (for example, using water).</li> </ul>          |
|                       |  | <ul style="list-style-type: none"> <li>Estimating volume</li> </ul>         | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)) and capacity (for example, using water).</li> </ul>          |
|                       |  | <ul style="list-style-type: none"> <li>Estimating capacity</li> </ul>       | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)) and capacity (for example, using water).</li> </ul>          |

## Year 6

| Power Maths<br>Year 6 |                                   |   | National curriculum programmes of study |                                 |  |
|-----------------------|-----------------------------------|---|---|---------------------------------|--|
| Term                  | Unit                              | Lesson titles   | Year                                    | Domain                          | Pupils should be taught to:  |
| Textbook 6A           | Unit 1, Place value to 10,000,000 | <ul style="list-style-type: none"> <li>Numbers to 1,000,000</li> </ul>      | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |
|                       |                                   |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul> |
|                       |                                   | <ul style="list-style-type: none"> <li>Numbers to 10,000,000 (1)</li> </ul> | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |
|                       |                                   |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>  |
|                       |                                   | <ul style="list-style-type: none"> <li>Numbers to 10,000,000 (2)</li> </ul> | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |
|                       |                                   |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul> |
|                       |                                   | <ul style="list-style-type: none"> <li>Number line to 10,000,000</li> </ul> | 5                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |
|                       |                                   |   | 6                                       | Number – number and place value | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul> |

| Power Maths<br>Year 6 |  |  | National curriculum programmes of study   |   |  |  |
|-----------------------|--|--|---|---|--|--|
| Term                  | Unit   | Lesson titles  | Year  | Domain  | Pupils should be taught to:  |  |
|                       |  | <ul style="list-style-type: none"> <li>Comparing and ordering numbers to 10,000,000</li> </ul> | 5   | Number – number and place value                             | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> </ul>  |  |
|                       |  |  | 6   | Number – number and place value                             | <ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul> |  |
|                       |  | <ul style="list-style-type: none"> <li>Rounding numbers</li> </ul>                             | 5   | Number – number and place value                             | <ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.</li> </ul>  |  |
|                       |  |  | 6   | Number – number and place value                             | <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>   |  |
|                       |  | <ul style="list-style-type: none"> <li>Negative numbers</li> </ul>                             | 5   | Number – number and place value                             | <ul style="list-style-type: none"> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</li> </ul>                                      |  |
|                       |  |  | 6   | Number – number and place value                             | <ul style="list-style-type: none"> <li>Use negative numbers in context, and calculate intervals across zero.</li> </ul>  |  |
|                       |  | Unit 2, Four operations (1)  | <ul style="list-style-type: none"> <li>Problem solving – using written methods of addition and subtraction (1)</li> </ul> | 5   | Number – addition and subtraction  | <ul style="list-style-type: none"> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul> |
|                       |  |  |   | 5   | Number – addition and subtraction  | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>  |
|                       | <ul style="list-style-type: none"> <li>Multiplying numbers up to 4 digits by a 1-digit number</li> </ul> |  | 5   | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>                          |  |
|                       |  |  | 6   | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</li> </ul>  |  |

| Power Maths<br>Year 6 |      |   | National curriculum programmes of study |   |   |
|-----------------------|------|---|---|---|---|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |      | <ul style="list-style-type: none"> <li>Multiplying numbers up to 4 digits by a 2-digit number</li> </ul>  | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> </ul>   |
|                       |      |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Dividing numbers up to 4 digits by a 2-digit number (1)</li> </ul> | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing numbers up to 4 digits by a 2-digit number (2)</li> </ul> | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Dividing numbers up to 4 digits by a 2-digit number (3)</li> </ul> | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Dividing numbers up to 4 digits by a 2-digit number (4)</li> </ul> | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Dividing numbers up to 4 digits by a 2-digit number (5)</li> </ul> | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</li> </ul> |

| Power Maths<br>Year 6 |                             |   | National curriculum programmes of study |   |   |
|-----------------------|-----------------------------|---|---|---|---|
| Term                  | Unit                        | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:   |
|                       |                             | <ul style="list-style-type: none"> <li>Dividing numbers up to 4 digits by a 2-digit number (6)</li> </ul> | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</li> </ul> |
|                       | Unit 3, Four operations (2) | <ul style="list-style-type: none"> <li>Common factors</li> </ul>  | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> </ul>  |
|                       |                             |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>  |
|                       |                             | <ul style="list-style-type: none"> <li>Common multiples</li> </ul>  | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> </ul>  |
|                       |                             |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>  |
|                       |                             | <ul style="list-style-type: none"> <li>Recognising prime numbers up to 100</li> </ul>                     | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</li> <li>Establish whether a number up to 100 is prime and recall prime numbers up to 19.</li> </ul>                                    |
|                       |                             |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>  |
|                       |                             | <ul style="list-style-type: none"> <li>Squares and cubes</li> </ul>                                       | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Recognise and use square numbers and cube numbers, and the notation for squared (<math>^2</math>) and cubed (<math>^3</math>).</li> </ul>  |
|                       |                             | <ul style="list-style-type: none"> <li>Order of operations</li> </ul>                                     | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> </ul>   |

| Power Maths<br>Year 6 |                       |  | National curriculum programmes of study |   |   |
|-----------------------|-----------------------|--|---|---|---|
| Term                  | Unit                  | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       |                       | <ul style="list-style-type: none"> <li>• Brackets</li> </ul>                   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>• Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>• Mental calculations (1)</li> </ul>    | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>• Add and subtract numbers mentally with increasingly large numbers.</li> </ul>  |
|                       |                       |  | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>• Multiply and divide numbers mentally drawing upon known facts.</li> </ul>  |
|                       |                       |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>• Perform mental calculations, including with mixed operations and large numbers.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>• Mental calculations (2)</li> </ul>    | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>• Add and subtract numbers mentally with increasingly large numbers.</li> </ul>  |
|                       |                       |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>• Perform mental calculations, including with mixed operations and large numbers.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>• Reasoning from known facts</li> </ul> | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li> </ul>   |
|                       |                       |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>• Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> <li>• Solve problems involving addition, subtraction, multiplication and division.</li> </ul> |
|                       | Unit 4, Fractions (1) | <ul style="list-style-type: none"> <li>• Simplifying fractions (1)</li> </ul>  | 6                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>• Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>• Simplifying fractions (2)</li> </ul>  | 5                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>• Compare and order fractions whose denominators are all multiples of the same number.</li> </ul>  |

| Power Maths<br>Year 6 |      |  | National curriculum programmes of study |   |  |
|-----------------------|------|--|---|---|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |
|                       |      |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Fractions on a number line</li> </ul>           | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> </ul>   |
|                       |      |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Comparing and ordering fractions (1)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> </ul>   |
|                       |      |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Comparing and ordering fractions (2)</li> </ul> | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting fractions (1)</li> </ul> | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> </ul>   |
|                       |      |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Adding and subtracting fractions (2)</li> </ul> | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |

| Power Maths<br>Year 6 |                       |  | National curriculum programmes of study |   |  |
|-----------------------|-----------------------|--|---|---|--|
| Term                  | Unit                  | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |
|                       |                       | <ul style="list-style-type: none"> <li>Adding fractions</li> </ul>                                       | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Subtracting fractions</li> </ul>                                  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Problem solving – adding and subtracting fractions (1)</li> </ul> | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Problem solving – adding and subtracting fractions (2)</li> </ul> | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>   |
|                       | Unit 5, Fractions (2) | <ul style="list-style-type: none"> <li>Multiplying a fraction by a whole number</li> </ul>               | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Multiplying a fraction by a fraction (1)</li> </ul>               | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>).</li> </ul> |
|                       |                       | <ul style="list-style-type: none"> <li>Multiplying a fraction by a fraction (2)</li> </ul>               | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>).</li> </ul> |
|                       |                       | <ul style="list-style-type: none"> <li>Dividing a fraction by a whole number (1)</li> </ul>              | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Divide proper fractions by whole numbers (for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>).</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Dividing a fraction by a whole number (2)</li> </ul>              | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Divide proper fractions by whole numbers (for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>).</li> </ul>   |
|                       |                       | <ul style="list-style-type: none"> <li>Dividing a fraction by a whole number (3)</li> </ul>              | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Divide proper fractions by whole numbers (for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>).</li> </ul>   |



| Power Maths<br>Year 6 |   |  | National curriculum programmes of study |   |  |  |
|-----------------------|---|--|---|---|--|--|
| Term                  | Unit                                      | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |  |
|                       |   | <ul style="list-style-type: none"> <li>Four rules with fractions</li> </ul>                  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> </ul>  |  |
|                       |   |  | 6                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>).</li> </ul> |  |
|                       |   | <ul style="list-style-type: none"> <li>Calculating fractions of amounts</li> </ul>           | 6                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>Use written division methods in cases where the answer has up to two decimal places.</li> </ul>   |  |
|                       |   | <ul style="list-style-type: none"> <li>Problem solving – fractions of amounts</li> </ul>     | 6                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>Use written division methods in cases where the answer has up to two decimal places.</li> </ul>   |  |
|                       | Unit 6, Geometry – position and direction | <ul style="list-style-type: none"> <li>Plotting coordinates in the first quadrant</li> </ul> |   | 5   | Geometry – position and direction  | <ul style="list-style-type: none"> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li> </ul> |
|                       |   |  |   | 6   | Geometry – position and direction  | <ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants).</li> </ul>   |
|                       |   | <ul style="list-style-type: none"> <li>Plotting coordinates</li> </ul>                       | 6                                       | Geometry – position and direction                           | <ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants).</li> </ul>   |  |
|                       |   | <ul style="list-style-type: none"> <li>Plotting translations and reflections</li> </ul>      | 6                                       | Geometry – position and direction                           | <ul style="list-style-type: none"> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>  |  |
|                       |   | <ul style="list-style-type: none"> <li>Reasoning about shapes with coordinates</li> </ul>    | 5                                       | Geometry – position and direction                           | <ul style="list-style-type: none"> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li> </ul>   |  |
|                       |   |  | 6                                       | Geometry – position and direction                           | <ul style="list-style-type: none"> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>  |  |

| Power Maths<br>Year 6 |                  |  | National curriculum programmes of study |   |  |
|-----------------------|------------------|--|---|---|--|
| Term                  | Unit             | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |
| Textbook 6B           | Unit 7, Decimals | <ul style="list-style-type: none"> <li>• Multiplying by 10, 100 and 1,000</li> </ul>           | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>  |
|                       |                  | <ul style="list-style-type: none"> <li>• Dividing by multiples of 10, 100 and 1,000</li> </ul> | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>  |
|                       |                  | <ul style="list-style-type: none"> <li>• Decimals as fractions</li> </ul>                      | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Read and write decimal numbers as fractions (for example, <math>0.71 = \frac{71}{100}</math>).</li> </ul>   |
|                       |                  |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, <math>\frac{3}{8}</math>).</li> <li>• Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul> |
|                       |                  | <ul style="list-style-type: none"> <li>• Fractions as decimals (1)</li> </ul>                  | 5                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Read and write decimal numbers as fractions (for example, <math>0.71 = \frac{71}{100}</math>).</li> </ul>   |
|                       |                  |  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, <math>\frac{3}{8}</math>).</li> </ul>  |
|                       |                  | <ul style="list-style-type: none"> <li>• Fractions as decimals (2)</li> </ul>                  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, <math>\frac{3}{8}</math>).</li> <li>• Use written division methods in cases where the answer has up to two decimal places.</li> </ul>  |
|                       |                  | <ul style="list-style-type: none"> <li>• Multiplying decimals (1)</li> </ul>                   | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Multiply one-digit numbers with up to two decimal places by whole numbers.</li> </ul>   |

| Power Maths<br>Year 6 |                     |  | National curriculum programmes of study                 |   |   |
|-----------------------|---------------------|--|---|---|---|
| Term                  | Unit                | Lesson titles  | Year  | Domain  | Pupils should be taught to:   |
|                       |                     | <ul style="list-style-type: none"> <li>• Multiplying decimals (2)</li> </ul> | 6   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>• Multiply one-digit numbers with up to two decimal places by whole numbers.</li> </ul>  |
|                       |                     | <ul style="list-style-type: none"> <li>• Dividing decimals (1)</li> </ul>    | 6   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>• Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, <math>\frac{3}{8}</math>).</li> <li>• Solve problems which require answers to be rounded to specified degrees of accuracy.</li> </ul> |
|                       |                     | <ul style="list-style-type: none"> <li>• Dividing decimals (2)</li> </ul>    | 6   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>• Use written division methods in cases where the answer has up to two decimal places.</li> <li>• Solve problems which require answers to be rounded to specified degrees of accuracy.</li> </ul>  |
|                       | Unit 8, Percentages | <ul style="list-style-type: none"> <li>• Percentage of (1)</li> </ul>        | 5   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>• Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.</li> </ul>  |
| 6                     |                     |  | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>• Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>                                      |   |
| 6                     |                     |  | Ratio and proportion                                    | <ul style="list-style-type: none"> <li>• Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul> |   |
|                       |                     | <ul style="list-style-type: none"> <li>• Percentage of (2)</li> </ul>        | 6   | Number – fractions (including decimals and percentages)   | <ul style="list-style-type: none"> <li>• Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>  |
| 6                     |                     |  | Ratio and proportion                                    | <ul style="list-style-type: none"> <li>• Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul> |   |

| Power Maths<br>Year 6 |      |  | National curriculum programmes of study |   |  |
|-----------------------|------|--|---|---|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |
|                       |      | ● Percentage of (3)                                  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>● Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>).</li> <li>● Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul> |
|                       |      |  | 6                                       | Ratio and proportion                                    | <ul style="list-style-type: none"> <li>● Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>  |
|                       |      | ● Percentage of (4)                                  | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>● Multiply one-digit numbers with up to two decimal places by whole numbers.</li> <li>● Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |
|                       |      |  | 6                                       | Ratio and proportion                                    | <ul style="list-style-type: none"> <li>● Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>  |
|                       |      | ● Finding missing values                             | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>● Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |
|                       |      |  | 6                                       | Ratio and proportion                                    | <ul style="list-style-type: none"> <li>● Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>  |
|                       |      | ● Converting fractions to percentages                | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>● Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |
|                       |      | ● Equivalent fractions, decimals and percentages (1) | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>● Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |

| Power Maths<br>Year 6 |                 |  | National curriculum programmes of study |   |  |
|-----------------------|-----------------|--|---|---|--|
| Term                  | Unit            | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:  |
|                       |                 | <ul style="list-style-type: none"> <li>Equivalent fractions, decimals and percentages (2)</li> </ul> | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>                |
|                       |                 | <ul style="list-style-type: none"> <li>Mixed problem solving</li> </ul>                              | 6                                       | Number – fractions (including decimals and percentages) | <ul style="list-style-type: none"> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul> |
|                       | Unit 9, Algebra | <ul style="list-style-type: none"> <li>Finding a rule (1)</li> </ul>                                 | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Finding a rule (2)</li> </ul>                                 | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Using a rule (1)</li> </ul>                                   | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Generate and describe linear number sequences.</li> <li>Express missing number problems algebraically.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Using a rule (2)</li> </ul>                                   | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Generate and describe linear number sequences.</li> <li>Express missing number problems algebraically.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Using a rule (3)</li> </ul>                                   | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Generate and describe linear number sequences.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Formulae</li> </ul>   | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>  |
|                       |                 | <ul style="list-style-type: none"> <li>Solving equations (1)</li> </ul>                              | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Solving equations (2)</li> </ul>                              | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Solving equations (3)</li> </ul>                              | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> </ul>   |
|                       |                 | <ul style="list-style-type: none"> <li>Solving equations (4)</li> </ul>                              | 6                                       | Algebra   | <ul style="list-style-type: none"> <li>Find pairs of numbers that satisfy an equation with two unknowns.</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>   |

| Power Maths<br>Year 6 |   |   | National curriculum programmes of study |             |  |
|-----------------------|---|---|---|-------------|--|
| Term                  | Unit  | Lesson titles   | Year                                    | Domain      | Pupils should be taught to:  |
|                       |   | <ul style="list-style-type: none"> <li>Solving equations (5)</li> </ul>             | 6                                       | Algebra     | <ul style="list-style-type: none"> <li>Find pairs of numbers that satisfy an equation with two unknowns.</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>   |
|                       | Unit 10, Measure – imperial and metric measures | <ul style="list-style-type: none"> <li>Metric measures</li> </ul>                   | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> </ul>  |
|                       |   |   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul> |
|                       |   | <ul style="list-style-type: none"> <li>Converting metric measures</li> </ul>        | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> </ul>  |
|                       |   |   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul> |
|                       |   | <ul style="list-style-type: none"> <li>Problem solving – metric measures</li> </ul> | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> </ul>  |
|                       |   |   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul>  |
|                       |   | <ul style="list-style-type: none"> <li>Miles and km</li> </ul>                      | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>   |
|                       |   |   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Convert between miles and kilometres.</li> </ul>  |

| Power Maths<br>Year 6 |  |   | National curriculum programmes of study |             |  |
|-----------------------|--|---|---|-------------|--|
| Term                  | Unit   | Lesson titles   | Year                                    | Domain      | Pupils should be taught to:  |
|                       |  | <ul style="list-style-type: none"> <li>Imperial measures</li> </ul>           | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> </ul>   |
|                       |  |   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul> |
|                       | Unit 11 – Measure perimeter, area and volume | <ul style="list-style-type: none"> <li>Shapes with the same area</li> </ul>   | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Area and perimeter (1)</li> </ul>      | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Area and perimeter (2)</li> </ul>      | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Area of a parallelogram</li> </ul>     | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate the area of parallelograms and triangles</li> </ul>   |
|                       |  | <ul style="list-style-type: none"> <li>Area of a triangle (1)</li> </ul>      | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Area of a triangle (2)</li> </ul>      | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Area of a triangle (3)</li> </ul>      | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Problem solving – area</li> </ul>      | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Problem solving – perimeter</li> </ul> | 6                                       | Measurement | <ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Volume of a cuboid (1)</li> </ul>      | 5                                       | Measurement | <ul style="list-style-type: none"> <li>Estimate volume (for example, using <math>1\text{ cm}^3</math> blocks to build cuboids (including cubes)) and capacity (for example, using water).</li> </ul>   |

| Power Maths<br>Year 6 |                                |  | National curriculum programmes of study |                      |   |
|-----------------------|--------------------------------|--|---|----------------------|---|
| Term                  | Unit                           | Lesson titles  | Year                                    | Domain               | Pupils should be taught to:   |
|                       |                                |  | 6                                       | Measurement          | <ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (<math>\text{cm}^3</math>) and cubic metres (<math>\text{m}^3</math>), and extending to other units (for example, <math>\text{mm}^3</math> and <math>\text{km}^3</math>).</li> </ul> |
|                       |                                | <ul style="list-style-type: none"> <li>Volume of a cuboid (2)</li> </ul> | 5                                       | Measurement          | <ul style="list-style-type: none"> <li>Estimate volume (for example, using <math>1 \text{ cm}^3</math> blocks to build cuboids (including cubes)) and capacity (for example, using water).</li> </ul>   |
|                       |                                |  | 6                                       | Measurement          | <ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (<math>\text{cm}^3</math>) and cubic metres (<math>\text{m}^3</math>), and extending to other units (for example, <math>\text{mm}^3</math> and <math>\text{km}^3</math>).</li> </ul> |
|                       | Unit 12, Ratio and proportions | <ul style="list-style-type: none"> <li>Ratio (1)</li> </ul>              | 6                                       | Ratio and proportion | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>  |
|                       |                                | <ul style="list-style-type: none"> <li>Ratio (2)</li> </ul>              | 6                                       | Ratio and proportion | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>  |



| Power Maths<br>Year 6 |      |  | National curriculum programmes of study |                                      |  |
|-----------------------|------|--|---|--------------------------------------|--|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                               | Pupils should be taught to:  |
|                       |      | <ul style="list-style-type: none"> <li>Ratio (3)</li> </ul>                                  | 6                                       | Ratio and proportion                 | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Ratio (4)</li> </ul>                                  | 6                                       | Ratio and proportion                 | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Scale drawings</li> </ul>                             | 6                                       | Ratio and proportion                 | <ul style="list-style-type: none"> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Scale factors</li> </ul>                              | 6                                       | Ratio and proportion                 | <ul style="list-style-type: none"> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Similar shapes</li> </ul>                             | 6                                       | Ratio and proportion                 | <ul style="list-style-type: none"> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – ratio and proportion (1)</li> </ul> | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>   |
|                       |      |  | 6                                       | Ratio and proportion                 | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul> |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – ratio and proportion (2)</li> </ul> | 5                                       | Number – multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>   |

| Power Maths<br>Year 6 |  |   | National curriculum programmes of study |                                 |  |
|-----------------------|--|---|---|---------------------------------|--|
| Term                  | Unit                                     | Lesson titles   | Year                                    | Domain                          | Pupils should be taught to:  |
|                       |  |   | 6                                       | Ratio and proportion            | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul> |
| Textbook 6C           | Unit 13, Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Measuring with a protractor</li> </ul> | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> <li>Draw given angles, and measure them in degrees (<math>^{\circ}</math>).</li> </ul>  |
|                       |  |   | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Drawing shapes accurately</li> </ul>   | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw given angles, and measure them in degrees (<math>^{\circ}</math>).</li> </ul>  |
|                       |  |   | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Angles in triangles (1)</li> </ul>     | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Angles in triangles (2)</li> </ul>     | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Angles in triangles (3)</li> </ul>     | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>  |
|                       |  | <ul style="list-style-type: none"> <li>Angles in polygons (1)</li> </ul>      | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> </ul>  |

| Power Maths<br>Year 6 |      |  | National curriculum programmes of study |                                 |   |
|-----------------------|------|--|---|---------------------------------|---|
| Term                  | Unit | Lesson titles  | Year                                    | Domain                          | Pupils should be taught to:   |
|                       |      |  | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Angles in polygons (2)</li> </ul>     | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> </ul>   |
|                       |      |  | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Vertically opposite angles</li> </ul> | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> </ul> |
|                       |      |  | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Equal distance</li> </ul>             | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Illustrate and name parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Parts of a circle</li> </ul>          | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Illustrate and name parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Nets (1)</li> </ul>                   | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify 3D shapes, including cubes and other cuboids, from 2D representations.</li> </ul>   |
|                       |      |  | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise, describe and build simple 3D shapes, including making nets.</li> </ul>  |
|                       |      | <ul style="list-style-type: none"> <li>Nets (2)</li> </ul>                   | 5                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Identify 3D shapes, including cubes and other cuboids, from 2D representations.</li> </ul>   |
|                       |      |  | 6                                       | Geometry – properties of shapes | <ul style="list-style-type: none"> <li>Recognise, describe and build simple 3D shapes, including making nets.</li> </ul>  |

| Power Maths<br>Year 6 |                          |  | National curriculum programmes of study |   |   |
|-----------------------|--------------------------|--|---|---|---|
| Term                  | Unit                     | Lesson titles  | Year                                    | Domain  | Pupils should be taught to:   |
|                       | Unit 14, Problem solving | <ul style="list-style-type: none"> <li>Problem solving – place value</li> </ul>              | 5                                       | Number – number and place value                             | <ul style="list-style-type: none"> <li>Solve number problems and practical problems that involve all of the above.</li> </ul>   |
|                       |                          |  | 6                                       | Number – number and place value                             | <ul style="list-style-type: none"> <li>Solve number and practical problems that involve all of the above.</li> </ul>  |
|                       |                          | <ul style="list-style-type: none"> <li>Problem solving – negative numbers</li> </ul>         | 5                                       | Number – number and place value                             | <ul style="list-style-type: none"> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</li> </ul>   |
|                       |                          |  | 6                                       | Number – number and place value                             | <ul style="list-style-type: none"> <li>Solve number and practical problems that involve all of the above.</li> </ul>  |
|                       |                          | <ul style="list-style-type: none"> <li>Problem solving – addition and subtraction</li> </ul> | 5                                       | Number – addition and subtraction                           | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>   |
|                       |                          |  | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> <li>Solve problems involving addition, subtraction, multiplication and division.</li> <li>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</li> </ul> |
|                       |                          | <ul style="list-style-type: none"> <li>Problem solving – four operations (1)</li> </ul>      | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.</li> </ul>   |
|                       |                          |  | 5                                       | Measurement   | <ul style="list-style-type: none"> <li>Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.</li> </ul>   |

| Power Maths<br>Year 6 |      |   | National curriculum programmes of study |   |  |
|-----------------------|------|---|---|---|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain  | Pupils should be taught to:  |
|                       |      |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> <li>Solve problems involving addition, subtraction, multiplication and division.</li> <li>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</li> </ul>              |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – four operations (2)</li> </ul> | 5                                       | Number – multiplication and division                        | <ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.</li> </ul>  |
|                       |      |   | 5                                       | Measurement   | <ul style="list-style-type: none"> <li>Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.</li> </ul>  |
|                       |      |   | 6                                       | Number – addition, subtraction, multiplication and division | <ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication and division.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – fractions</li> </ul>           | 6                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – decimals</li> </ul>            | 5                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> <li>Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul> |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages)     | <ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |

| Power Maths<br>Year 6 |      |   | National curriculum programmes of study |  |  |                      |  |
|-----------------------|------|---|---|--|--|----------------------|--|
| Term                  | Unit | Lesson titles   | Year                                    | Domain   | Pupils should be taught to:  |                      |  |
|                       |      | <ul style="list-style-type: none"> <li>Problem solving – percentages</li> </ul> | 5                                       | Number – fractions (including decimals and percentages)                                  | <ul style="list-style-type: none"> <li>Solve problems involving number up to three decimal places.</li> <li>Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul> |                      |  |
|                       |      |   | 6                                       | Number – fractions (including decimals and percentages)                                  | <ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>   |                      |  |
|                       |      |   | 6                                       | Ratio and proportion   | <ul style="list-style-type: none"> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>  |                      |  |
|                       |      |   |   | <ul style="list-style-type: none"> <li>Problem solving – ratio and proportion</li> </ul> | 6  | Ratio and proportion | <ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul> |
|                       |      |   |   | <ul style="list-style-type: none"> <li>Problem solving – time (1)</li> </ul>             | 5  | Measurement          | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>   |
|                       |      |   |   |  | 6  | Measurement          | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul>                           |
|                       |      |   |   | <ul style="list-style-type: none"> <li>Problem solving – time (2)</li> </ul>             | 5  | Measurement          | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>   |
|                       |      |   |   |  | 6  | Measurement          | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</li> </ul>                           |

| Power Maths<br>Year 6 |                     |  | National curriculum programmes of study |                                   |   |
|-----------------------|---------------------|--|---|-----------------------------------|---|
| Term                  | Unit                | Lesson titles  | Year                                    | Domain                            | Pupils should be taught to:   |
|                       |                     |  | 6                                       | Measurement                       | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul>   |
|                       |                     | <ul style="list-style-type: none"> <li>Problem solving – position and direction</li> </ul>   | 6                                       | Geometry – position and direction | <ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants).</li> </ul>  |
|                       |                     | <ul style="list-style-type: none"> <li>Problem solving – properties of shapes (1)</li> </ul> | 5                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> </ul> |
|                       |                     |  | 6                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>                      |
|                       |                     | <ul style="list-style-type: none"> <li>Problem solving – properties of shapes (2)</li> </ul> | 5                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Identify               <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total <math>360^\circ</math>)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>other multiples of <math>90^\circ</math>.</li> </ul> </li> </ul> |
|                       |                     |  | 6                                       | Geometry – properties of shapes   | <ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>                      |
|                       | Unit 15, Statistics | <ul style="list-style-type: none"> <li>The mean (1)</li> </ul>                               | 6                                       | Statistics                        | <ul style="list-style-type: none"> <li>Calculate and interpret the mean as an average.</li> </ul>   |
|                       |                     | <ul style="list-style-type: none"> <li>The mean (2)</li> </ul>                               | 6                                       | Statistics                        | <ul style="list-style-type: none"> <li>Calculate and interpret the mean as an average.</li> </ul>   |

| Power Maths<br>Year 6 |      |                                       | National curriculum programmes of study                     |   |  |
|-----------------------|------|---------------------------------------|---|---|--|
| Term                  | Unit | Lesson titles                         | Year  | Domain  | Pupils should be taught to:  |
|                       |      | • The mean (3)                        | 6   | Statistics  | • Calculate and interpret the mean as an average.  |
|                       |      | • Introducing pie charts              | 6   | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.  |
|                       |      | • Reading and interpreting pie charts | 6   | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.  |
|                       |      | • Fractions and pie charts (1)        | 6   | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.  |
|                       |      | • Fractions and pie charts (2)        | 6   | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.  |
|                       |      | • Percentages and pie charts          | 6   | Number – addition, subtraction, multiplication and division   | • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. |
|                       | 6    |                                       | Ratio and proportion  | • Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison. |  |
|                       | 6    |                                       | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.   |  |
|                       |      | • Interpreting line graphs            | 5   | Statistics  | • Solve comparison, sum and difference problems using information presented in a line graph.                                     |
|                       | 6    |                                       | Number – addition, subtraction, multiplication and division | • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.                        |  |
|                       | 6    |                                       | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.   |  |
|                       |      | • Constructing line graphs            | 5   | Statistics  | • Solve comparison, sum and difference problems using information presented in a line graph.                                     |
|                       | 6    |                                       | Statistics  | • Interpret and construct pie charts and line graphs and use these to solve problems.   |  |