

## KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMIN TERM, SPRING TERM and SUMIMER TERM

| Week | Unit | Lesson titles | Domain | National Curriculum Pupils should be taught to: |
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| 1 | Unit 1- Place value within 100,000 | Lesson 1 - Roman numerals | Number- Number and place value | - Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals. |
|  |  | $\begin{aligned} & \text { Lesson } 2 \text { - Number to } \\ & 10,000 \\ & \hline \end{aligned}$ | Number- Number and place value | - Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit $(100,000)$. |
|  |  | $\begin{aligned} & \text { Lesson } 3 \text { - Numbers to } \\ & 100,000 \end{aligned}$ | Number- Number and place value | - Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit $(100,000)$. |
|  |  | Lesson 4 - Numbers to 1,000,000 | Number- Number and place value | - Read, write, order and compare numbers to at least $1,000,000$ and determine the value of each digit $(100,000)$. |
| 2 |  | Lesson 5 - Read and write 5-and 6-digit numbers | Number- Number and place value | - Read, write, order and compare numbers to at least $1,000,000$ and determine the value of each digit $(100,000)$. |
|  |  | Lesson 6 - Power of 10 | Number- Number and place value | - Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. |
|  |  | Lesson 7 - 10, 100, 1,000, 100,000 more or less | Number- Number and place value | - Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. |
|  |  | Lesson 8 - Partition numbers to $1,000,000$ | Number- Number and place value | - Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit $(100,000)$. |
| 3 | Unit 2 Place value within 1,000,000 | Lesson 1 - Number line to 1,000,000 | Number- Number and place value | - Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit. |
|  |  | Lesson 2 - Compare and order numbers to 100,000 | Number- Number and place value | - Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit. |
|  |  | Lesson 3 - Compare and order numbers to 1,000,000 | Number- Number and place value | - Read, write, order and compare numbers to at least $1,000,000$ and determine the value of each digit. |
|  |  | Lesson 4 - Round numbers to the nearest 100,000 | Number- Number and place value | - Round any number up to $1,000,000$ to the nearest $10,100,1,000,10,000$ and 100,000 |

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| 7 |  | Lesson 12 - Solve comparison problems | Number- Addition and subtraction | - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why. |
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|  | Unit 5Multiplication and division(1) | Lesson 1 - Multiples | Number Multiplication and division | - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. |
|  |  | Lesson 2 - Common multiples | Number Multiplication and division | - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. |
|  |  | Lesson 3 - Factors | Number Multiplication and division | - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. |
| 8 |  | Lesson 4 - Common factors | Number Multiplication and division | - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. |
|  |  | Lesson 5 - Prime numbers | Number Multiplication and division | - Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. |
|  |  | Lesson 6 - Square numbers | Number Multiplication and division | - Recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed ( ${ }^{3}$ ). |
|  |  | Lesson 7 - Cube numbers | Number Multiplication and division | - Recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed ( ${ }^{3}$ ). |
| 9 |  | Lesson 8 - Multiplying by 10,100 and 1,000 | Number Multiplication and division | - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. |
|  |  | Lesson 9 - Divide by 10,100 and 1,000 | Number Multiplication and division | - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 . |
|  |  | Lesson 10 - Multiples of 10,100 and 1,000 | Number Multiplication and division | - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 . |

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|  | Unit 5Fractions (1) | Lesson 1 - Equivalent fractions | Number - Fractions (including decimals and percentages) |  | Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. |
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| 10 |  | Lesson 2 - Equivalent fractions - unit and nonunit fractions | Number - Fractions (including decimals and percentages) |  | Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. |
|  |  | Lesson 3 - Families of equivalent fractions | Number - Fractions (including decimals and percentages) |  | Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. |
|  |  | Lesson 4 - Improper fractions to mixed number | Number - Fractions (including decimals and percentages) |  | Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number. |
|  |  | Lesson 5 - Mixed number to improper fractions | Number - Fractions (including decimals and percentages) |  | Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number. |
| 11 |  | Lesson 6 - Compare fractions less than 1 | Number - Fractions (including decimals and percentages) |  | Compare and order fractions whose denominators are all multiples of the same number. |
|  |  | Lesson 7 - Order fractions less thaUnitn 1 | Number - Fractions (including decimals and percentages) |  | Compare and order fractions whose denominators are all multiples of the same number. |
|  |  | Lesson 8 - Compare and order fractions greater than 1 | Number - Fractions (including decimals and percentages) |  | Compare and order fractions whose denominators are all multiples of the same number. |
|  | Unit 6 Fractions (2) | Lesson 1 - Adding and subtracting fractions | Number - Fractions (including decimals and percentages) |  | Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| 12 |  | Lesson 2 - Add fractions within 1 | Number - Fractions (including decimals and percentages) |  | Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
|  |  | Lesson 3 - Add fractions with a total greater that 1 | Number - Fractions (including decimals and percentages) |  | Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |

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|  |  | Lesson 4 - Multiply 3digits by 2-digits. | Number Multiplication and division | - 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. |
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|  |  | Lesson 5 - Multiply 4digit by 2-digit. | Number Multiplication and division | - 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. |
|  |  | Lesson 6 - Divide 4digit by 1-digit (1) | Number - <br> Multiplication and division | - 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. |
| 4 |  | Lesson 7 - Divide 4digit by 1-digit (2) | Number Multiplication and division | - 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. |
|  |  | Lesson 8 - Divide by remainders | Number Multiplication and division | - 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. |
|  |  | Lesson 9 - Efficient divisions | Number Multiplication and division | - 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. |
|  |  | Lesson 10 Solve problems with multiplication and division | Number Multiplication and division | - 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. |
| 5 | Unit 8- <br> Fractions (3) | Lesson 1 - Multiply unit fractions by an integer | Number - Fractions (including decimals and percentages) | - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
|  |  | Lesson 2 - Multiply nonunit fractions by an integer | Number - Fractions (including decimals and percentages) | - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
|  |  | Lesson 3 - Multiply mixed numbers by integers (1) | Number - Fractions (including decimals and percentages) | - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
|  |  | Lesson 4 - Multiply mixed numbers by integers (2) | Number - Fractions (including decimals and percentages) | - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |

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| 6 |  | Lesson 5 - Fractions of amounts | Number - Fractions (including decimals and percentages) |  | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
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|  |  | Lesson 6 - Finding the whole | Number - Fractions (including decimals and percentages) |  | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
|  |  | Lesson 7 - Using fractions as operators | Number - Fractions (including decimals and percentages) |  | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
|  | Unit 9 Decimals and percentages | Lesson 1 - Write decimals up to 2 decimal places - less than 1 | Number - Fractions (including decimals and percentages) |  | Read, write, order and compare numbers with up to three decimal places. |
| 7 |  | Lesson 2 - Write decimals up to 2 decimal places - greater than 1 | Number - Fractions (including decimals and percentages) |  | Read, write, order and compare numbers with up to three decimal places. |
|  |  | Lesson 3 - Equivalent fractions and decimals tenths. | Number - Fractions (including decimals and percentages) |  | Read and write decimal numbers as fractions |
|  |  | Lesson 4 - Equivalent fractions and decimalshundredths | Number - Fractions (including decimals and percentages) |  | Read and write decimal numbers as fractions |
|  |  | Lesson 5 - Equivalent fractions and decimals | Number - Fractions (including decimals and percentages) |  | Read and write decimal numbers as fractions |
| 8 |  | Lesson 6 Thousandths as fractions | Number - Fractions (including decimals and percentages) |  | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents |
|  |  | Lesson 7- Thousandths as decimals | Number - Fractions (including decimals and percentages) |  | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents |

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## Unit 10-

Measure-
perimeter and area

Lesson 8 -
Thousandths on a place value grid $\qquad$ Lesson 9 - Order and compare decimals same number of decimal places Lesson 10 - Order and compare decimals with up to 3 decimal places Lesson 11 - Round to the nearest whole number 12 - Round one decimal place

## Lesson 13 -

Understanding percentages
Lesson 14 -
Percentages as fractions and decimals Lesson 15 - Equivalent fractions, decimals and percentages.
Lesson 1 - Perimeter of rectangles Lesson 2 - Perimeter of rectilinear shapes (1) Lesson 3 - Perimeter of rectilinear shapes (2) Lesson 4 - Perimeter of polygons

Number - Fractions (including decimals and percentages) Number - Fractions (including decimals and percentages)

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| Measurement |  |
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- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- Read, write, order and compare numbers with up to three decimal places.
- Read, write, order and compare numbers with up to three decimal places.
- Round decimals with two decimal places to the nearest whole number and to one decimal place.
- Round decimals with two decimal places to the nearest whole number and to one decimal place.
- 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.
- 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.
- 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.
- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
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|  |  | Lesson 5 - Area of rectangles (1) | Measurement | - Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres $\left(\mathrm{m}^{2}\right)$ and estimate the area of irregular shapes. |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Lesson 6 - Area of rectangles (2) | Measurement | - Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres $\left(\mathrm{cm}^{2}\right)$ and square metres $\left(\mathrm{m}^{2}\right)$ and estimate the area of irregular shapes. |
| 12 |  | Lesson 7 - Area of compound shapes | Measurement | - Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres $\left(\mathrm{cm}^{2}\right)$ and square metres $\left(\mathrm{m}^{2}\right)$ and estimate the area of irregular shapes. |
|  |  | Lesson 8 - Estimate area | Measurement | - Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres $\left(\mathrm{cm}^{2}\right)$ and square metres $\left(\mathrm{m}^{2}\right)$ and estimate the area of irregular shapes. |
|  | Unit 11 Graphs and tables | Lesson 1 - Draw line graphs | Statistics | - Solve comparison, sum and difference problems using information presented in a line graph. |
|  |  | Lesson 2 - Read and interpret line graphs (1) | Statistics | - Solve comparison, sum and difference problems using information presented in a line graph. |
| 1 |  | Lesson 3 - Read and interpret line graphs (2) | Statistics | - Solve comparison, sum and difference problems using information presented in a line graph. |
|  |  | Lesson 4 - Read and interpret tables | Statistics | - Complete, read and interpret information in tables, including timetables. |
|  |  | Lesson 5 - Two-way tables | Statistics | - Complete, read and interpret information in tables, including timetables. |
|  |  | Lesson 6 - Timetables reading | Statistics | - Complete, read and interpret information in tables, including timetables. |
| 2 | Unit 12 Geometry properties of shapes | Lesson 1 - Understand and use degrees | Geometry | - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. |
|  |  | Lesson 2 - Measure acute angles | Geometry | - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. |
|  |  | Lesson 3 - Measure angles up to $180^{\circ}$ | Geometry | - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. |
|  |  | Lesson 4 - Draw lines and angles accurately | Geometry | - Draw given angles, and measure them in degrees $\left({ }^{\circ}\right.$ ). |

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| 3 |  | Lesson 5 - Calculate angles around a point | Geometry | - Identify - angles at a point and one whole turn (total $360^{\circ}$ ) - angles at a point on a straight line and 12 a turn (total $180^{\circ}$ ) - other multiples of $90^{\circ}$ |
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|  |  | Lesson 6 - Calculate angles on a straight line | Geometry | - Identify - angles at a point and one whole turn (total $360^{\circ}$ ) - angles at a point on a straight line and 12 a turn (total $180^{\circ}$ ) - other multiples of $90^{\circ}$. |
|  |  | Lesson 7 - Lengths and angles in shapes | Geometry | - Use the properties of rectangles to deduce related facts and find missing lengths and angles. |
|  |  | Lesson 8 - Regular and irregular polygons | Geometry | - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. |
| 4 |  | Lesson 12 - 3D shapes | Geometry | - Identify 3D shapes, including cubes and other cuboids, from 2D representations. |
|  | Unit 13 Geometry position and direction | Lesson 1 - Read and plot coordinates | Geometry | - Describe the position on a 2D grid as coordinates in the first quadrant (Year 4). |
|  |  | Lesson 2 - Problem solving with coordinates | Geometry | - Describe the position on a 2D grid as coordinates in the first quadrant (Year 4). |
|  |  | Lesson 3 - Translate shapes | Geometry | - 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. |
| 5 |  | Lesson 4 - Translate points | Geometry | - 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. |
|  |  | Lesson 5 - Lines of symmetry | Geometry | - Identify lines of symmetry in 2D shapes presented in different orientations (Year 4) |
|  |  | Lesson 6 - Reflection in horizontal and vertical lines | Geometry | - 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. |
|  | Unit 14 Decimals | Lesson 1 - Add and subtract decimals within 1 (1) | Number - Fractions (including decimals and percentages) | - Solve problems involving number up to three decimal places. |
| 6 |  | Lesson 2 - Add and subtract decimals within 1 (2) | Number - Fractions (including decimals and percentages) | - Solve problems involving number up to three decimal places. |
|  |  | Lesson 3 Complements to 1 | Number - Fractions (including decimals and percentages) | - Solve problems involving number up to three decimal places. |

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|  |  | Lesson 4 - Add and subtract decimals (bridging) | Number - Fractions (including decimals and percentages) |  | - Solve problems involving number up to three decimal places. |
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|  |  | Lesson 5 - Add decimals- same number of decimal places | Number - Fractions (including decimals and percentages) |  | - Solve problems involving number up to three decimal places. |
| 7 |  | Lesson 6 - Subtract decimals with the same number of decimal places | Number - Fractions (including decimals and percentages) |  | - Solve problems involving number up to three decimal places. |
|  |  | Lesson 7 - Add decimals with different numbers of decimal places | Number - Fractions (including decimals and percentages) |  | - Solve problems involving number up to three decimal places. |
|  |  | Lesson 8 - Subtract decimals with different numbers of decimal places | Number - Fractions (including decimals and percentages) |  | - Solve problems involving number up to three decimal places. |
|  |  | Lesson 9 - Problem solving with decimals (1) | Number - Fractions (including decimals and percentages) |  | - Solve problems involving number up to three decimal places. |
| 8 |  | Lesson 11 - Decimal sequences | Number - Fractions (including decimals and percentages) |  | - Read, write, order and compare numbers with up to three decimal places. |
|  |  | $\begin{aligned} & \text { Lesson } 12 \text { - Multiply by } \\ & 10 \end{aligned}$ | Number - Fractions (including decimals and percentages) |  | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. |
|  |  | $\text { Lesson } 13 \text { - Multiply by }$ $10,100 \text { and } 1,000$ | Number - Fractions (including decimals and percentages) |  | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. |
|  |  | $\begin{aligned} & \text { Lesson } 14 \text { - Divide by } \\ & 10 \end{aligned}$ | Number - Fractions (including decimals and percentages) |  | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. |

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| 9 |  | Lesson 15 - Divide by 10, 100 and 1,000 | Number - Fractions (including decimals and percentages) | - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. |
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|  | Unit 15 Negative number | Lesson 1 - Understand negative number | Number- Number and place value | - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. |
|  |  | Lesson 2 - Count through zero | Number- Number and place value | - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. |
|  |  | Lesson 3 - Compare and order negative numbers | Number- Number and place value | - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. |
| 10 |  | Lesson 4 - Find the difference | Number- Number and place value | - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. |
|  | Unit 16Measure converting units | Lesson 1 - Kilograms and kilometres | Measurement | - Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). |
|  |  | Lesson 2 - Millimetres and millilitres | Measurement | - Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). |
|  |  | Lesson 3 - Convert units of length | Measurement | - Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). |
| 11 |  | Lesson 4 - Imperial units of length | Measurement | - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. |
|  |  | Lesson 5 - Imperial units of mass | Measurement | - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. |
|  |  | Lesson 6 - Imperial units of capacity | Measurement | - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. |
|  |  | Lesson 7 - Convert units of time | Measurement | - Solve problems involving converting between units of time. |
| 12 |  | Lesson 8 - Timetables calculating | Measurement | - Solve problems involving converting between units of time. |
|  |  | Lesson 1 - Cubic centimetre | Measurement | - Estimate volume (for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes) and capacity (for example, using water). |

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| Unit 17- <br> Volume and <br> capacity | Lesson 2 - Compare <br> volume | Measurement | •Estimate volume (for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including <br> cubes) and capacity (for example, using water). |
| :--- | :--- | :--- | :--- |
|  | Lesson 3 - Estimate <br> volume | Measurement | Estimate volume (for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including <br> cubes) and capacity (for example, using water). |

