## Year 1 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 1 | Page reference |
| :---: | :---: | :---: |
| Number number and place value | count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number | 6 |
|  | count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens | 4, 6, 7-9, 15 |
|  | given a number, identify one more and one less | 6 |
|  | identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least | 11-14 |
|  | read and write numbers from 1 to 20 in numerals and words | 4 |
| Number addition and subtraction | read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs | 11, 16, 20 |
|  | represent and use number bonds and related subtraction facts within 20 | 17, 24 |
|  | add and subtract one-digit and two-digit numbers to 20 , including zero | 16-24 |
|  | solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square-9$ | 33-34 |
| Number multiplication and division | solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher | 25-28, 33-34 |
| Number fractions | recognise, find and name a half as one of two equal parts of an object, shape or quantity | 29, 30, 32 |
|  | recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | 29, 30, 32 |
| Measurement | compare, describe and solve practical problems for: |  |
|  | - lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] | 38 |
|  | - mass/weight [for example, heavy/light, heavier than, lighter than] | 39 |
|  | - capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] | 40 |
|  | - time [for example, quicker, slower, earlier, later] | 44-45 |
|  | recognise and know the value of different denominations of coins and notes | 36-37 |

## Year 1 programme of study

| Topic | Curriculum requirements covered in <br> Maths Revision Guide Key Stage 1 | Page reference |
| :--- | :--- | :--- |
| Measurement <br> (continued) | recognise and use language relating to dates, including days <br> of the week, weeks, months and years | 43 |
|  | tell the time to the hour and half past the hour and draw the <br> hands on a clock face to show these times | $44-45$ |
|  | Recognise and name common 2-D and 3-D shapes, including: |  |
|  | - 2-D shapes [for example, rectangles (including squares), <br> circles and triangles] | $46-47$ |
|  | - 3-D shapes [for example, cuboids (including cubes), <br> pyramids and spheres] | $50-51$ |
| Geometry - <br> position and <br> direction | describe position, direction and movement, including whole, <br> half, quarter and three-quarter turns | $54-56$ |

## Year 2 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 1 | Page reference |
| :---: | :---: | :---: |
| Number number and place value | count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward and backward | 6-10 |
|  | recognise the place value of each digit in a two-digit number (tens, ones) | 8 |
|  | identify, represent and estimate numbers using different representations, including the number line | 14 |
|  | compare and order numbers from 0 up to 100; use $<,>$ and $=$ signs | 11-13 |
|  | read and write numbers to at least 100 in numerals and in words | 4 |
|  | use place value and number facts to solve problems | $\begin{aligned} & 16,20,24,26, \\ & 28 \end{aligned}$ |
| Number addition and subtraction | solve problems with addition and subtraction: |  |
|  | - using concrete objects and pictorial representations, including those involving numbers, quantities and measures | 33-37, 41 |
|  | - applying their increasing knowledge of mental and written methods | 16-24 |
|  | recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 | 24 |
|  | add and subtract numbers using concrete objects, pictorial representations, and mentally, including: |  |
|  | - a two-digit number and ones | 16 |
|  | - a two-digit number and tens | 16-17 |
|  | - two two-digit numbers | 18-19 |
|  | - adding three one-digit numbers | 17 |
|  | show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot | 35 |
|  | recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | 24 |
| Number multiplication and division | recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers | 5, 7, 26 |
|  | calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(\times)$, division $(\div)$ and equals ( $=$ ) signs | 25-28 |

## Year 2 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 1 | Page reference |
| :---: | :---: | :---: |
| Number multiplication and division (continued) | show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | 26, 28 |
|  | solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 25-28, 33-37 |
| Number fractions | recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity | 29-30 |
|  | write simple fractions for example, $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | 31-32 |
| Measurement | choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass $(\mathrm{kg} / \mathrm{g})$; temperature ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels | 38-40 |
|  | compare and order lengths, mass, volume/capacity and record the results using >, < and = | 38-42 |
|  | recognise and use symbols for pounds ( $£$ ) and pence ( p ); combine amounts to make a particular value | 36-37 |
|  | find different combinations of coins that equal the same amounts of money | 36-37 |
|  | solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | 34, 36 |
|  | compare and sequence intervals of time | 43 |
|  | tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times | 44-45 |
|  | know the number of minutes in an hour and the number of hours in a day | 43 |
| Geometry properties of shapes | identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line | 46-47, 52 |
|  | identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces | 50-51 |
|  | identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid] | 50 |
|  | compare and sort common 2-D and 3-D shapes and everyday objects | 52 |

## Year 2 programme of study

| Topic | Curriculum requirements covered in <br> Maths Revision Guide Key Stage 1 | Page <br> reference |
| :--- | :--- | :--- |
| Geometry <br> - position <br> and direction <br> (continued) | order and arrange combinations of mathematical objects in <br> patterns and sequences | $52-53$ |
|  | use mathematical vocabulary to describe position, direction <br> and movement, including movement in a straight line and <br> distinguishing between rotation as a turn and in terms of right <br> angles for quarter, half and three-quarter turns (clockwise and <br> anti-clockwise) | $54-56$ |
| Statistics | interpret and construct simple pictograms, tally charts, block <br> diagrams and simple tables | $57-59$ |
|  | ask and answer simple questions by counting the number <br> of objects in each category and sorting the categories <br> by quantity | $57-59$ |
|  | ask and answer questions about totalling and comparing <br> categorical data | $58-59$ |

## Year 3 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number number and place value | recognise the place value of each digit in a three-digit number (hundreds, tens, ones) | 4 |
|  | compare and order numbers up to 1000 | 8,10 |
|  | identify, represent and estimate numbers using different representations | 6 |
|  | read and write numbers up to 1000 in numerals and in words | 5 |
|  | solve number problems and practical problems involving these ideas | 10-11 |
| Number addition and subtraction | add and subtract numbers mentally, including: |  |
|  | - a three-digit number and tens | 33 |
|  | - a three-digit number and hundreds | 33 |
|  | add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | 34-35 |
|  | estimate the answer to a calculation and use inverse operations to check answers | 6, 46 |
|  | solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction | 46-49 |
| Number multiplication and division | recall and use multiplication and division facts for the 3,4 and 8 multiplication tables | 39-40 |
|  | 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 | 41-44 |
|  | 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 | 46-49 |
| Number fractions | 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 | 17 |
|  | recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators | 20 |
|  | recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators | 19 |
|  | recognise and show, using diagrams, equivalent fractions with small denominators | 18 |

## Year 3 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number fractions (continued) | add and subtract fractions with the same denominator within one whole | 21 |
|  | compare and order unit fractions, and fractions with the same denominators | 17 |
|  | solve problems that involve all of the above | 21 |
| Measurement | measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity ( $/ \mathrm{ml}$ ) | 52-56 |
|  | measure the perimeter of simple 2-D shapes | 55 |
|  | add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts | 46, 51 |
|  | tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks | 16, 63-64 |
|  | 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 | 64 |
|  | know the number of seconds in a minute and the number of days in each month, year and leap year | 63 |
|  | compare durations of events | 65 |
| Geometry properties of shapes | draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them | 67, 70-71 |
|  | recognise angles as a property of shape or a description of a turn | 77 |
|  | 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 | 77 |
|  | identify horizontal and vertical lines and pairs of perpendicular and parallel lines | 68 |
| Statistics | interpret and present data using bar charts, pictograms and tables | 83 |
|  | solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables | 84 |

## Year 4 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number number and place value | find 1000 more or less than a given number | 12 |
|  | count backwards through zero to include negative numbers | 9 |
|  | recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) | 4 |
|  | order and compare numbers beyond 1000 | 8 |
|  | identify, represent and estimate numbers using different representations | 6-11 |
|  | round any number to the nearest 10,100 or 1000 | 6-7 |
|  | solve number and practical problems that involve all of the above and with increasingly large positive numbers | 4-16 |
|  | 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 | 16 |
| Number addition and subtraction | add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate | 33-35 |
|  | estimate and use inverse operations to check answers to a calculation | 49 |
|  | solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why | 46, 48-49 |
| Number multiplication and division | recall multiplication and division facts for multiplication tables up to $12 \times 12$ | 39-40 |
|  | 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 | 4, 14, 41-42 |
|  | recognise and use factor pairs and commutativity in mental calculations | 36,41 |
|  | multiply two-digit and three-digit numbers by a one-digit number using formal written layout | 43 |
|  | 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 | 41, 46-48 |

## Year 4 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number fractions (including decimals) | recognise and show, using diagrams, families of common equivalent fractions | 17-18 |
|  | count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten | 23-25 |
|  | 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 | 20 |
|  | add and subtract fractions with the same denominator | 21 |
|  | recognise and write decimal equivalents of any number of tenths or hundredths | 23 |
|  | recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$ | 23 |
|  | 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 | 14 |
|  | round decimals with one decimal place to the nearest whole number | 25 |
|  | compare numbers with the same number of decimal places up to two decimal places | 24 |
|  | solve simple measure and money problems involving fractions and decimals to two decimal places | $\begin{aligned} & 17-21,23-25, \\ & 46 \end{aligned}$ |
| Measurement | convert between different units of measure [for example, kilometre to metre; hour to minute] | 52-53 |
|  | measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres | 55-56 |
|  | find the area of rectilinear shapes by counting squares | 57-58 |
|  | estimate, compare and calculate different measures, including money in pounds and pence | 46 |
|  | read, write and convert time between analogue and digital 12 - and 24 -hour clocks | 64 |
|  | solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days | 63-65 |
| Geometry properties of shapes | compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes | 67-69 |

## Year 4 programme of study

| Topic | Curriculum requirements covered in <br> Maths Revision Guide Key Stage 2 | Page <br> reference |
| :--- | :--- | :--- |
| Geometry - <br> properties <br> of shapes <br> (continued) | identify acute and obtuse angles and compare and order <br> angles up to two right angles by size | 77 |
|  | identify lines of symmetry in 2-D shapes presented in <br> different orientations | 72 |
|  | complete a simple symmetric figure with respect to a specific <br> line of symmetry | 72 |
| Geometry - <br> position and <br> direction | describe positions on a 2-D grid as coordinates in the <br> first quadrant | $72-75$ |
| describe movements between positions as translations of a <br> given unit to the left/right and up/down | 73 |  |
|  | plot specified points and draw sides to complete a <br> given polygon | 74 |
| Statistics | interpret and present discrete and continuous data using <br> appropriate graphical methods, including bar charts and <br> time graphs | $83-85$ |
|  | solve comparison, sum and difference problems using <br> information presented in bar charts, pictograms, tables and <br> other graphs | $83-85$ |

## Year 5 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number number and place value | read, write, order and compare numbers to at least 1000000 and determine the value of each digit | 4, 8 |
|  | count forwards or backwards in steps of powers of 10 for any given number up to 1000000 | 6-7, 14 |
|  | interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero | 9 |
|  | round any number up to 1000000 to the nearest 10,100 , 1000, 10000 and 100000 | 6-7 |
|  | solve number problems and practical problems that involve all of the above | 4-16 |
|  | read Roman numerals to $1000(\mathrm{M})$ and recognise years written in Roman numerals | 16 |
| Number addition and subtraction | add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) | 34-35 |
|  | add and subtract numbers mentally with increasingly large numbers | 33 |
|  | use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy | 49 |
|  | solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why | 46-48 |
| Number multiplication and division | identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers | 36 |
|  | know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers | 37 |
|  | establish whether a number up to 100 is prime and recall prime numbers up to 19 | 37 |
|  | 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 | 43 |
|  | multiply and divide numbers mentally drawing upon known facts | 41-42 |
|  | 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 | 44 |
|  | multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 | 14 |

## Year 5 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number multiplication and division (continued) | recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed $\left(^{3}\right)$ | 38 |
|  | solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes | 46-49 |
|  | solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | 46-49 |
|  | solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates | 46-49 |
| Number fractions (including decimals and percentages) | compare and order fractions whose denominators are all multiples of the same number | 17 |
|  | identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths | 18 |
|  | recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number [for example, $52+54=56=151$ ] | 19 |
|  | add and subtract fractions with the same denominator and denominators that are multiples of the same number | 21 |
|  | multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams | 22 |
|  | read and write decimal numbers as fractions [for example, $\left.0.71=\frac{71}{100}\right]$ | 23 |
|  | recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | 23 |
|  | round decimals with two decimal places to the nearest whole number and to one decimal place | 25 |
|  | read, write, order and compare numbers with up to three decimal places | 24 |
|  | solve problems involving number up to three decimal places | 23-25, 46-49 |
|  | 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 | 26-27 |
|  | solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 | 26-30 |

## Year 5 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| 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) | 52-53 |
|  | understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints | 54 |
|  | measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres | 55-56 |
|  | 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 | 57-58 |
|  | estimate volume and capacity | 60-61 |
|  | solve problems involving converting between units of time | 63-66 |
|  | use all four operations to solve problems involving measure using decimal notation, including scaling | 63-66 |
| Geometry properties of shapes | identify 3-D shapes, including cubes and other cuboids, from 2-D representations | 67-70 |
|  | know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles | 77-79 |
|  | draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) | 79 |
|  | identify: |  |
|  | - angles at a point and one whole turn (total $360^{\circ}$ ) | 80 |
|  | - angles at a point on a straight line and a turn (total $180^{\circ}$ ) | 80 |
|  | - other multiples of $90^{\circ}$ | 81 |
|  | use the properties of rectangles to deduce related facts and find missing lengths and angles | 81 |
|  | distinguish between regular and irregular polygons based on reasoning about equal sides and angles | 81 |
| 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 | 72-76 |
| Statistics | solve comparison, sum and difference problems using information presented in a line graph | 85 |
|  | complete, read and interpret information in tables, including timetables | 66, 83-84 |

## Year 6 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number number and place value | read, write, order and compare numbers up to 10000000 and determine the value of each digit | 4-5, 8-11 |
|  | round any whole number to a required degree of accuracy | 6-7 |
|  | use negative numbers in context, and calculate intervals across zero | 9 |
|  | solve number and practical problems that involve all of the above | 4-16 |
| Number addition, subtraction, multiplication and division | multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication | 43 |
|  | 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 | 44, 47 |
|  | 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 | 44, 47 |
|  | perform mental calculations, including with mixed operations and large numbers | 33, 41-42, 45 |
|  | identify common factors, common multiples and prime numbers | 36-37 |
|  | use their knowledge of the order of operations to carry out calculations involving the four operations | 45 |
|  | solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why | 46-48 |
|  | solve problems involving addition, subtraction, multiplication and division | 46-48 |
|  | use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy | 49 |
| Number fractions (including decimals and percentages) | use common factors to simplify fractions; use common multiples to express fractions in the same denomination | 17-18 |
|  | compare and order fractions, including fractions > 1 | 17-19 |
|  | add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions | 21 |
|  | multiply simple pairs of proper fractions, writing the answer in its simplest form | 22 |
|  | divide proper fractions by whole numbers | 22 |

## Year 6 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Number fractions (including decimals and percentages) (continued) | associate a fraction with division and calculate decimal fraction equivalents for a simple fraction | 20, 23 |
|  | identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places | 14, 23 |
|  | multiply one-digit numbers with up to two decimal places by whole numbers | 30 |
|  | use written division methods in cases where the answer has up to two decimal places | 30 |
|  | solve problems which require answers to be rounded to specified degrees of accuracy | 25 |
|  | recall and use equivalences between simple fractions, decimals and percentages, including in different contexts | 30 |
| Ratio and proportion | solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts | 31 |
|  | solve problems involving the calculation of percentages and the use of percentages for comparison | 31-32 |
|  | solve problems involving similar shapes where the scale factor is known or can be found | 31-32 |
|  | solve problems involving unequal sharing and grouping using knowledge of fractions and multiples | 32 |
| Algebra | use simple formulae | 46, 50-51 |
|  | generate and describe linear number sequences | 12-15 |
|  | express missing number problems algebraically | 50-51 |
|  | find pairs of numbers that satisfy an equation with two unknowns | 51 |
|  | enumerate possibilities of combinations of two variables | 48, 50-51 |
| Measurement | solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate | 52-53 |
|  | 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 | 52-54, 63-66 |
|  | convert between miles and kilometres | 54 |

## Year 6 programme of study

| Topic | Curriculum requirements covered in Maths Revision Guide Key Stage 2 | Page reference |
| :---: | :---: | :---: |
| Measurement (continued) | recognise that shapes with the same areas can have different perimeters and vice versa | 55-59 |
|  | recognise when it is possible to use formulae for area and volume of shapes | 55-59 |
|  | calculate the area of parallelograms and triangles | 58 |
|  | calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres ( $\mathrm{cm}^{3}$ ) and cubic metres ( $\mathrm{m}^{3}$ ), and extending to other units | 60 |
| Geometry properties of shapes | draw 2-D shapes using given dimensions and angles | 67-69, 71 |
|  | recognise, describe and build simple 3-D shapes, including making nets | 70-71 |
|  | compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons | 77-81 |
|  | illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius | 82 |
|  | recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles | 80 |
| Geometry position and direction | describe positions on the full coordinate grid (all four quadrants) | 74-76 |
|  | draw and translate simple shapes on the coordinate plane, and reflect them in the axes | 72-76 |
| Statistics | interpret and construct pie charts and line graphs and use these to solve problems | 85-87 |
|  | calculate and interpret the mean as an average | 89 |

