| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|------------------|
| Place value: Count | count to and | count in steps of | count from 0 in | count in multiples | count forwards or | |
| | across 100, | 2, 3, and 5 from 0, | multiples of 4, 8, | of 6, 7, 9, 25 and | backwards in | |
| | forwards and | and in tens from | 50 and 100; find | 1000 | steps of powers of | |
| | backwards, | any number, | 10 or 100 more or | | 10 for any given | |
| | beginning with 0 | forward and | less than a given | count backwards | number up to 1 | |
| | or 1, or from any | backward | number | through zero to | 000 000 | |
| | given number | | | include negative | | |
| | | | | numbers | count forwards | |
| | count numbers to | | | | and backwards | |
| | 100 in numerals; | | | | with positive and | |
| | count in multiples | | | | negative whole | |
| | of twos, fives and | | | | numbers, | |
| | tens | | | | including through | |
| | | | | | zero | |
| Place value: Represent | identify and | read and write | identify, represent | identify, represent | read, write, (order | read, write, |
| | represent | numbers to at | and estimate | and estimate | and compare) | (order |
| | numbers using | least 100 in | numbers using | numbers using | numbers to at | and compare) |
| | objects and | numerals and in | different | different | least 1 000 000 | numbers up to 10 |
| | pictorial | words | representations | representations | and determine the | 000 000 and |
| | representations | | | | value of each digit | determine the |
| | | identify, represent | read and write | read Roman | read Roman | value of each |
| | read and write | and estimate | numbers up to | numerals to 100 (I | numerals to 1000 | digit |
| | numbers to 100 in | numbers using | 1000 in numerals | to C) and know | (M) and recognise | |
| | numerals | different | and in words | that over time, the | years written in | |
| | | representations, | | numeral system | Roman numerals | |
| | read and write | including the | | changed to | | |
| | numbers from 1 | number line | | include the | | |
| | to 20 in numerals | | | concept of zero | | |
| | and words | | | and place value | | |
| Place value: Use and | given a number, | recognise the | recognise the | find 1000 more or | (read, write) order | (read, write), |
| compare | identify one more | place value of | place value of | less than a given | and compare | order and |
| | and one less | each digit in a | each digit in a | number | numbers to at | |

| | | two-digit number (tens, ones) compare and order numbers from 0 up to 100; use <, > and = signs | three-digit number (hundreds, tens, ones) compare and order numbers up to 1000 | recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 | least 1 000 000 and determine the value of each digit | compare numbers up to 10 000 000 and determine the value of each digit |
|---|--|---|--|---|--|--|
| Place value: Problems/Rounding | | use place value and number facts to solve problems | Solve number problems and practical problems involving these ideas | round any number to the nearest 10, 100 or 1000 solve number and practical problems that involve all of the above and with increasingly large positive numbers | interpret negative numbers in context round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above | round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above |
| Addition & subtraction: Calculations | add and subtract one-digit and two- digit numbers to 20, including zero | add and subtract numbers using concrete objects, pictorial representations, | add and subtract numbers mentally, including: | Add and subtract numbers with up to 4 digits using the formal written methods of | Add and subtract whole numbers with more than 4 digits, including using formal | perform mental calculations, including with mixed operations and large |

| <u></u> | T | T | г | Г | г | Г . |
|-------------------------|-------------------|---------------------|---------------------|--------------------|---------------------|--------------------|
| | | and mentally, | number and ones | columnar addition | written methods | numbers |
| | | including: | ② a three-digit | and subtraction | (columnar | |
| | | ② a two-digit | number and tens | where appropriate | addition and | use their |
| | | number and ones | ② a three-digit | | subtraction) | knowledge of the |
| | | ② a two-digit | number and | | | order of |
| | | number and tens | hundreds | | add and subtract | operations to |
| | | ② two two-digit | | | numbers mentally | carry out |
| | | numbers | add and subtract | | with increasingly | calculations |
| | | 2 adding three one- | numbers with up to | | large numbers | involving the four |
| | | digit numbers | three digits, using | | | operations |
| | | | formal written | | | · |
| | | | methods of | | | |
| | | | columnar | | | |
| | | | addition and | | | |
| | | | subtraction | | | |
| Addition & subtraction: | solve one-step | Solve problems | solve problems, | Solve addition and | Solve addition and | solve addition |
| Problems | problems that | with addition and | including missing | subtraction two- | subtraction multi- | and |
| | involve addition | subtraction: | number problems, | step problems in | step problems in | subtraction multi- |
| | and subtraction, | ② using concrete | using number | contexts, deciding | contexts, deciding | step problems in |
| | using concrete | objects and | facts, place value, | which operations | which operations | contexts, deciding |
| | objects and | pictorial | and more | and methods to | and methods to | which operations |
| | pictorial | representations, | complex addition | use and why | use and why | and methods to |
| | representations, | including those | and subtraction | ase and wity | ase and winy | use and why |
| | and missing | involving | and Subtraction | | solve problems | ase and willy |
| | number problems | numbers, | | | involving addition, | |
| | such as 7 = 2 – 9 | quantities and | | | subtraction, | |
| | Such as 7 - E - 9 | ' | | | · · | |
| | | measures | | | multiplication and | |
| | | ② applying their | | | division and a | |
| | | increasing | | | combination of | |
| | | knowledge of | | | these, including | |
| | | mental and | | | understanding the | |
| | | written methods | | | meaning of the | |
| | | | | | equals sign | |

| Multiplication & | recall and use | recall and use | recall | Identify multiples | identify common |
|---|--------------------|--------------------|--------------------|-----------------------|-------------------|
| division: Recall/Use | multiplication and | multiplication and | multiplication and | and factors, | factors, common |
| , | division facts for | division facts for | division facts for | including finding | multiples and |
| | the 2, 5 and 10 | the 3, 4 and 8 | multiplication | all factor pairs of a | prime numbers |
| | multiplication | multiplication | tables up to 12 × | number, and | |
| | tables, including | tables | 12 | common factors | use estimation to |
| | recognising odd | | | of two numbers | check answers to |
| | and even | | use place value, | | calculations and |
| | numbers | | known and | know and use the | determine, in the |
| | | | derived facts to | vocabulary of | context of a |
| | show that | | multiply and | prime numbers, | problem, an |
| | multiplication of | | divide mentally, | prime factors and | appropriate |
| | two numbers can | | including: | | degree of |
| | be done in any | | multiplying by 0 | composite (non- | accuracy |
| | order | | and 1; dividing by | prime) numbers | |
| | (commutative) | | 1; multiplying | | |
| | and division of | | together three | establish whether | |
| | one number by | | numbers | a number up to | |
| | another cannot | | | 100 is prime and | |
| | | | recognise and use | recall prime | |
| | | | factor pairs and | numbers up to 19 | |
| | | | commutativity in | | |
| | | | mental | recognise and use | |
| | | | calculations | square numbers | |
| | | | | and cube | |
| | | | | numbers, and the | |
| | | | | notation for | |
| | | | | squared (2 | |
| | | | |) and cubed (3 | |
| | | | |) | |
| Multiplication & | calculate | write and | multiply two-digit | multiply numbers | multiply multi- |
| division: Calculations | mathematical | calculate | and three-digit | up | digit |
| | statements for | mathematical | numbers by a | | |

| multiplication and division within the | statements for multiplication and | one-digit number using formal | to 4 digits by a one- or | numbers up to 4 digits |
|--|-----------------------------------|-------------------------------|--------------------------|------------------------|
| multiplication | division using the | written layout | two-digit number | by a two-digit |
| tables and write | multiplication | | using a formal | whole number |
| them using the | tables that they | | written | using the formal |
| multiplication (×), | know, including | | method, including | written method |
| division (÷) and | for two-digit | | long | of long |
| equals (=) signs | numbers times | | | multiplication |
| | one-digit | | multiplication for | |
| | numbers, using | | two- | divide numbers |
| | mental and | | digit numbers | up to 4 digits by a |
| | progressing to | | | two-digit |
| | formal written | | multiply and | whole number |
| | methods | | divide | using |
| | | | numbers mentally | the formal |
| | | | drawing upon | written |
| | | | known | method of long |
| | | | facts | division, and |
| | | | | interpret |
| | | | divide numbers up | remainders as |
| | | | to 4 digits by a | whole |
| | | | one-digit | number |
| | | | number using the | remainders, |
| | | | formal written | fractions, or by |
| | | | method of short | rounding, as |
| | | | division and | appropriate for |
| | | | interpret | the |
| | | | remainders | context |
| | | | appropriately for | |
| | | | the context | divide numbers |
| | | | | up to 4 digits by a |
| | | | | two-digit |

| | | | | | multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 | number using the formal written method of short division where appropriate, interpreting remainders according to the context |
|-------------------------------------|---|---|---|--|---|--|
| | | | | | | perform mental calculations, including with mixed operations and large numbers |
| Multiplication & division: Problems | 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 | solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 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 | 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 | solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving multiplication and division, including scaling by simple | solve problems involving addition, subtraction, multiplication and division |

| Multiplication & | | | | objects | fractions and problems involving simple rates Solve problems | use their |
|--------------------------------|--|---|---|---------|--|--|
| division: Combined | | | | | involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | knowledge of the order of operations to carry out calculations involving the four operations |
| Fractions: Recognise and write | recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | recognise, find, name and write fractions 1/3, ½, 2/4, and 3/4 of a length, shape, set of objects or quantity | 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 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small | | identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical | |

| | | denominators | | statements > 1 as | |
|-------------------------|--------------------|---------------------|--------------------|----------------------|---------------------|
| | | denominators | | a mixed number | |
| | | | | a mixed number | |
| | | recognise and use | | | |
| | | fractions as | | | |
| | | numbers: unit | | | |
| | | fractions and non- | | | |
| | | unit fractions with | | | |
| | | small | | | |
| | | denominators | | | |
| Fractions: Compare | Recognise the | recognise and | recognise and | compare and | Use common |
| | equivalence of 2/4 | show, using | show, using | order fractions | factors to simplify |
| | and 1/2 | diagrams, | diagrams, families | whose | fractions; use |
| | | equivalent | of common | denominators are | common |
| | | fractions with | equivalent | all multiples of the | multiples |
| | | small | fractions | same number | to express |
| | | denominators | | | fractions in the |
| | | | | | same |
| | | compare and | | | denomination |
| | | order unit | | | |
| | | fractions, and | | | compare and |
| | | fractions with the | | | order fractions, |
| | | same | | | including |
| | | denominators | | | fractions > 1 |
| Fractions: Calculations | write simple | Add and subtract | add and subtract | add and subtract | add and subtract |
| | fractions for | fractions with the | fractions with the | fractions with the | fractions with |
| | example, ½ of 6 | same | same | same | different |
| | =3 | denominator | denominator | denominator and | denominators |
| | -5 | within one whole | | denominators | and mixed |
| | | | | that are multiples | numbers, |
| | | | | of the same | using the concept |
| | | | | number | of equivalent |
| | | | | | fractions |
| | | | | multiply proper | |
| | | | | manupiy proper | |

| | | | | fractions and mixed numbers by whole numbers, supported by materials and diagrams | multiply simple pairs of proper fractions, writing the answer in its simplest form divide proper fractions by whole numbers |
|--|--|--|---|--|--|
| Fractions: Solve problems | | Solve problems that involve all of the above | 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 | | |
| Decimals: Recognise, write, compare | | | recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/4, 1/2, 3/4 | read and write decimal numbers as fractions recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | identify the value of each digit in numbers given to three decimal places |

| | | | 1 |
|-------------------------|---------------------|--------------------|--------------------|
| | round decimals | | |
| | with one decimal | round decimals | |
| | place to the | with two decimal | |
| | nearest whole | places to the | |
| | number | nearest whole | |
| | | number and to | |
| | compare numbers | one decimal place | |
| | with the same | | |
| | number of | read, write, order | |
| | decimal places up | and compare | |
| | to two decimal | numbers with up | |
| | places | to three decimal | |
| | | places | |
| Fractions, decimals and | solve simple | recognise the per | associate a |
| percentages | measure and | cent symbol (%) | fraction with |
| | money problems | and understand | division and |
| | involving fractions | that per cent | calculate decimal |
| | and decimals to | relates to 'number | fraction |
| | two decimal places | of parts per | equivalents [for |
| | | hundred', and | example, 0.375] |
| | | write percentages | for a simple |
| | | as a fraction with | fraction [for |
| | | denominator 100, | example, 3/8 |
| | | and as a decimal |] |
| | | | |
| | | solve problems | recall and use |
| | | which require | equivalences |
| | | knowing | between simple |
| | | percentage and | fractions, |
| | | decimal | decimals and |
| | | equivalents of | percentages, |
| | | ½, ¼, 1/5, 2/5, | including in |
| | | 4/5 and | different contexts |

| | 1 | T | | <u>T</u> |
|----------------------|---|---|-------------------|--------------------|
| | | | those fractions | |
| | | | with a | |
| | | | denominator of a | |
| | | | multiple of 10 or | |
| | | | 25 | |
| 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 |
| | | | | aivision racts |
| | | | | solve problems |
| | | | | involving the |
| | | | | calculation/use of |
| | | | | percentages for |
| | | | | |
| | | | | comparison |
| | | | | salva problems |
| | | | | solve problems |
| | | | | involving similar |
| | | | | shapes where the |
| | | | | scale factor is |
| | | | | known or can be |
| | | | | found |
| | | | | |
| | | | | solve problems |
| | | | | involving unequal |
| | | | | sharing and |

| | | | | | | grouping using knowledge of fractions and multiples |
|----------------|--|--|---|---|--|--|
| Algebra | solve one-step problems that involve addition | recognise and use the inverse relationship | Solve problems including missing number problems | | | use simple formulae |
| | and subtraction, using concrete objects and pictorial | between addition and subtraction and use this to check calculations | | | | generate and describe linear number sequences |
| | representations, and missing number problems such as $7 = 2 - 9$ | and solve missing number problems | | | | express missing number problems algebraically |
| | | | | | | find pairs of numbers that satisfy an equation with two unknowns |
| | | | | | | enumerate possibilities of combinations of two variables |
| Using measures | compare, describe and solve practical problems for: 2 lengths and | Choose and use appropriate standard units to estimate and measure | Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); | Convert between different units of measure [for example, kilometre to | Convert between different units of metric measure understand and | solve problems involving the calculation and conversion of units of measure, |
| | heights ? mass/weight | length/height in any direction | volume/capacity (I/ml) | metre; hour to minute] | use approximate equivalences | using decimal |

| | D consoity and | Im Im I mass | | | between metric | notation up to |
|-------|-------------------|-----------------------|--------------------|---------------------|---------------------|--------------------|
| | 2 capacity and | (m/cm); mass | | 12 1 . | | notation up to |
| | volume | (kg/g); | | estimate, | units and common | 3d.p. where |
| | ? time | temperature (°C); | | compare and | imperial units such | appropriate |
| | | capacity (litres/ml) | | calculate different | as inches, pounds | |
| | measure and | to the nearest | | measures | and pints | use, read, write |
| | begin to record | appropriate unit, | | | | and convert |
| | the following: | using rulers, scales, | | | use all four | between |
| | lengths and | thermometers | | | operations to | standard |
| | heights | and measuring | | | solve problems | units, converting |
| | ② mass/weight | vessels | | | involving measure | measurements of |
| | 2 capacity and | | | | [for example, | length, mass, |
| | volume | compare and | | | length, mass, | volume and time |
| | ② time (hours,) | order lengths, | | | volume, money] | from a smaller |
| | minutes, seconds) | mass, | | | using decimal | unit of measure |
| | , , | volume/capacity | | | notation, | to |
| | | and record the | | | including scaling | a larger unit, and |
| | | results using >, < | | | | vice versa, using |
| | | and = | | | | decimal notation |
| | | unu – | | | | to up to 3 d.p. |
| | | | | | | to up to 3 d.p. |
| | | | | | | convert between |
| | | | | | | miles and |
| | | | | | | kilometres |
| Money | recognise and | recognise and use | Add and subtract | Estimate, compare | Use all four | |
| , | know the value of | symbols for | amounts of | and | operations to | |
| | different | pounds (£) and | money to give | calculate different | solve problems | |
| | denominations of | pence (p); | change, using | measures, | involving measure | |
| | coins and notes | combine amounts | both £ and p in | including money in | [for example, | |
| | coms and notes | to make a | practical contexts | pounds and | money] | |
| | | particular value | practical contexts | pence | Inoney] | |
| | | particular value | | pence | | |
| | | find different | | | | |
| | | combinations of | | | | |
| | | COMBINATIONS OF | | | | |

| Time | sequence events in chronological | coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Compare and sequence intervals | Tell and write the time from an | read, write and | Solve problems | use, read, write |
|------|----------------------------------|--|---------------------------------------|---------------------------------|-----------------------|-----------------------------|
| Time | chronological order using | Compare and sequence intervals of time | time from an analogue clock, | convert time between analogue | involving converting | and convert between |
| | language [for example, before | tell and write the | including using Roman numerals | and digital 12- and 24-hour | between units of time | standard units, converting |
| | and after, next, first, today, | time to five minutes, including | from I to XII, and 12-hour and 24- | clocks | | measurements of time from a |
| | yesterday, | quarter past/to | hour clocks | solve problems | | smaller unit of |
| | tomorrow, | the hour and draw | | involving | | measure to a |
| | morning, afternoon and | the hands on a clock face to show | estimate and read | converting from | | larger unit, and |
| | evening] | these times | time with increasing | hours to minutes; minutes to | | vice versa |
| | C. C. IIII [8] | these times | accuracy to the | seconds; years to | | |
| | recognise and use | know the number | nearest minute; | months; weeks to | | |
| | language relating | of minutes in an | record and | days | | |
| | to dates, including | hour and the | compare time in | | | |
| | days of the week, | number of hours | terms of seconds, | | | |
| | weeks, months | in a day | minutes and | | | |
| | and years | | hours; use | | | |

| | 1 | | | | |
|------------------|----------------------|---------------------|--------------------|--------------------|--------------------|
| | | vocabulary such as | | | |
| | tell the time to the | o'clock, a.m./p.m., | | | |
| | hour and half past | morning, | | | |
| | the hour and draw | afternoon, | | | |
| | the hands on a | noon and midnight | | | |
| | clock face to show | | | | |
| | these times | know the number | | | |
| | | of | | | |
| | | seconds in a | | | |
| | | minute and the | | | |
| | | number of | | | |
| | | days in each | | | |
| | | month, year and | | | |
| | | leap year | | | |
| | | , , | | | |
| | | compare durations | | | |
| | | of | | | |
| | | events [for | | | |
| | | example | | | |
| | | to calculate the | | | |
| | | time taken by | | | |
| | | particular | | | |
| | | events or tasks] | | | |
| Perimeter, area, | | measure the | measure and | measure and | recognise that |
| volume | | perimeter of | calculate the | calculate the | shapes with the |
| | | simple 2-D shapes | perimeter of a | perimeter of | same areas can |
| | | | rectilinear figure | composite | have different |
| | | | (including | rectilinear shapes | perimeters and |
| | | | squares) in | in centimetres and | vice versa |
| | | | centimetres and | metres | recognise when it |
| | | | metres | | is possible to use |
| | | | | calculate and | formulae for area |
| | | | find the area of | | and volume of |
| | | | Tima the area of | | and volume of |

| | | | | rectilinear shapes | compare the area | shapes |
|------------|-------------------|------------------------------|-----------------|----------------------------------|---------------------------------|----------------------------|
| | | | | by counting | of rectangles | |
| | | | | squares | (including squares) | calculate the area |
| | | | | ' | and including | of parallelograms |
| | | | | | using standard | and triangles |
| | | | | | units, square | |
| | | | | | centimetres (cm2) | calculate, |
| | | | | | and square metres | estimate and |
| | | | | | (m2) and estimate | compare |
| | | | | | the area of | volume of cubes |
| | | | | | irregular shapes | and cuboids using |
| | | | | | | standard units, |
| | | | | | estimate volume | including cubic |
| | | | | | [for example, | centimetres |
| | | | | | using blocks to | (cm3) and cubic |
| | | | | | build | metres |
| | | | | | cuboids] and | (m3), and |
| | | | | | capacity [for | extending to |
| | | | | | example, using | other units |
| | | | | | water] | |
| 2-D shapes | recognise and | identify and | draw 2-D shapes | compare and | Distinguish | draw 2-D shapes |
| | name common 2-D | describe the | | classify geometric | between regular | using given |
| | shapes [for | properties of 2-D | | shapes, including | and irregular | dimensions and |
| | example, | shapes, including | | quadrilaterals and | polygons based on | angles |
| | rectangles | the number of | | triangles, based on | reasoning | |
| | (including | sides and line | | their properties | about equal sides | compare and |
| | squares), circles | symmetry in a | | and sizes | and angles. | classify geometric |
| | and triangles] | vertical line | | identify lines of | uso the properties | shapes based on |
| | | identify 2-D | | identify lines of | use the properties | their properties and sizes |
| | | shapes on the | | symmetry in 2-D shapes presented | of rectangles to deduce related | aliu Sizes |
| | | snapes on the surface of 3-D | | in different | facts and find | illustrate and |
| | | | | orientations | iacis aliu iiliu | |
| | | shapes, [for | | orientations | | name parts of |

| | | example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D shapes and everyday objects | | | missing lengths and angles | circles, including radius, diameter and circumference and know that the diameter is twice the radius |
|------------------|---|--|--|--|--|---|
| 3-D shapes | recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] | recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] compare and sort common 3-D shapes and everyday objects | Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them | | Identify 3-D shapes, including cubes and other cuboids, from 2-D representations | recognise, describe and build simple 3-D shapes, including making nets |
| Angles and lines | | | recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three | identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations | Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees | find unknown angles in any triangles, quadrilaterals, and regular polygons recognise angles where they meet at a point, are on a straight line, or are vertically |

| | | | quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines | complete a simple symmetric figure with respect to a specific line of symmetry | identify: ② angles at a point and one whole turn (total 360°) ② angles at a point on a straight line and 1/2 a turn (total 180°) ② other multiples of 90° | opposite, and find missing angles |
|------------------------|---|--|---|---|---|---|
| Position and direction | describe position, direction and movement, including whole, half, quarter and three-quarter turns | order and arrange combinations of mathematical objects in patterns and sequences use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for | | describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon | 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 | describe positions on the full coordinate grid (all four quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes |

| | augretor half and | | | | |
|-----------------------|---------------------|-------------------|--------------------|---------------------|-----------------|
| | quarter, half and | | | | |
| | three-quarter turns | | | | |
| | (clockwise and | | | | |
| | anti- clockwise) | | | | |
| Present and interpret | Interpret and | interpret and | interpret and | Complete, read | interpret and |
| data | construct simple | present data | present discrete | and interpret | construct pie |
| | pictograms, tally | using bar charts, | and continuous | information in | charts and line |
| | charts, block | pictograms and | data using | tables, including | graphs and use |
| | diagrams and | tables | appropriate | timetables | these to solve |
| | simple tables | | graphical | | problems |
| | · | | methods, | | |
| | | | including bar | | |
| | | | charts and time | | |
| | | | graphs | | |
| Solve statistical | ask and answer | solve one-step | solve comparison, | solve comparison, | calculate and |
| problems | simple questions | and two-step | sum and | sum and | interpret the |
| problems | | • | difference | difference | • |
| | by counting the | questions [for | | | mean as an |
| | number of objects | example, 'How | problems using | problems using | average |
| | in each category | many more?' and | information | information | |
| | and sorting the | 'How many | presented in bar | presented in a line | |
| | categories by | fewer?'] using | charts, | graph | |
| | quantity | information | pictograms, tables | | |
| | | presented in | and other graphs | | |
| | ask and answer | scaled bar charts | | | |
| | questions about | and pictograms | | | |
| | totalling and | and tables | | | |
| | comparing | | | | |
| | categorical data | | | | |