

| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|-----------|--|-------------------------------------|---------------------------------------|-----------------------------------|--|--|--|
| Number | <u>Number</u> | Within 10 | Count in steps of | Count from 0 in | Count in multiples | Read, write, order | Read, write, order |
| and Place | To count 5 | Count to and | 2, 3, and 5 from 0, | multiples of 4, 8, | of 6, 7, 9, 25 and | and compare | and compare |
| Value | objects that can't | across 100, | and in tens from | 50 and 100; find | 1000 | numbers to at | numbers up to 10 |
| | be seen, can be | forwards and | any number, | 10 or 100 more or | Find 1000 more | least 1 000 000 | 000 000 and |
| | moved or can't be | backwards, | forward and | less than a given | or less than a | and determine | determine the |
| | moved. Tag each | beginning with 0 | backward | number | given number | the value of each | value of each digit |
| | object with one | or 1, or from any | Recognise the | Recognise the | Count backwards | digit | Round any whole |
| | number word, | given number | place value of | place value of | through zero to | Count forwards or | number to a |
| | progressing to 10, | Count, read and | each digit in a | each digit in a | include negative | backwards in | required degree |
| | 13, 16 then 20. | write numbers to | two-digit number | three-digit | numbers | steps of powers | of accuracy |
| | To make sets to 5. | 10 in numerals; | (tens, ones) | number | Recognise the | of 10 for any | Use negative |
| | Respond to 'Get | Given a number, | Identify, | (hundreds, tens, | place value of | given number up | numbers in |
| | me' and How | identify one more | represent and | ones) | each digit in a | to 1 000 000 | context, and |
| | many?', | and one less | estimate numbers | Compare and | four-digit number | Interpret negative | calculate intervals |
| | progressing to 10, | within 10 | using different | order numbers up | (thousands, | numbers in | across zero |
| | 13, 16 and 20. | Identify and | representations, | to 1000 | hundreds, tens, | context, count | Solve number and |
| | Subitise to 5. | represent | including the | Identify, | and ones) | forwards and | practical |
| | Use the subitise | numbers using | number line | represent and | Order and | backwards with | problems that |
| | patterns and the | objects and | Compare and | estimate numbers | compare numbers | positive and | involve all of the |
| | composition of | pictorial | order numbers | using different | beyond 1000 | negative whole | above. |
| | numbers to | representations | from 0 up to 100; | representations | Identify, | numbers, | |
| | recognise | including the | use <, > and = | Read and write | represent and | including through | |
| | quantities to10 | number line, and | signs | numbers up to | estimate numbers | zero | |
| | without counting. | use the | Read and write | 1000 in numerals | using different | Round any | |
| | Match quantity to | language of: equa | numbers to at | and in words | representations | number up to | |
| | numeral to 5, | I to, more than, | least 100 in | Solve number | Round any | 1 000 000 to the | |
| | progressing to 10, | less than (fewer), | numerals and in | problems and | number to the | nearest 10, 100, | |
| | 13, 16 and 20. | most, least within | words | practical | nearest 10, 100 or | 1000, 10 000 and | |
| | Know that an | 10 | Use place value | problems | 1000 | 100 000 | |
| | amount doesn't | Read and write | and number facts | involving these | Solve number and | Solve number problems and | |
| | change even if | numbers from 1 | to solve | ideas. | practical | problems and | |
| | the objects are | to 10 in numerals | problems. | | problems that | practical | |
| | moved if the | and words. | | | involve all of the | problems that | |
| | amount hasn't | | | | above and with | involve all of the | |
| | | | | | | above | |



| changed, to 5, | Within 50 | increasingly large • Read Roman |
|--------------------|-------------------|-------------------------------------|
| progressing to 10. | Count, read and | positive numbers numerals to 1000 |
| Understand that | write numbers to | Read Roman (M) and recognise |
| 10-19 are made | 50 in numerals. | numerals to 100 (I years written in |
| up of one ten and | Know the value of | to C) and know Roman numerals. |
| extra ones and 20 | tens and ones in | that over time, |
| is made up of two | a two | the numeral |
| tens and no extra | digit number | system changed |
| ones. | within 50 | to include the |
| | Know one more | concept of zero |
| Numerical Patterns | than and one less | and place value. |
| Count verbally | than a number | |
| forwards and | within 50 and | |
| backwards to 5, | solve problems | |
| progressing to 10, | using this | |
| 13, 16, 20 and | knowledge. | |
| beyond 20 (refer | Know ten more | |
| to the | than a number | |
| chronological | within 50 and | |
| order of numbers | solve problems | |
| and their pattern | using this | |
| on a number | knowledge. | |
| line). | Know ten less | |
| | than a number | |
| <u>Compare</u> | within 50 and | |
| Quantities/Shapes | solve problems | |
| Compare | using this | |
| quantities using | knowledge. | |
| 'more' and 'less'. | | |
| | Within 100 | |
| | Count, read and | |
| | write numbers to | |
| | 100 in numerals. | |
| | Know the value of | |
| | tens and ones in | |
| | a two | |



| digit number |
|-------------------|
| within 100 |
| Know one more |
| than and one less |
| |
| than a number |
| within 100 and |
| solve problems |
| using this |
| knowledge. |
| Know ten more |
| than a number |
| |
| within 100 and |
| solve problems |
| using this |
| knowledge. |
| Know ten less |
| than a number |
| within 100 and |
| |
| solve problems |
| using this |
| knowledge. |
| |





| together using | and mentally, addition and | appropriate |
|---------------------|----------------------------|-------------|
| number blocks, | including: subtraction. | degree of |
| record | A two-digit | accuracy. |
| pictorially. | number and | |
| Add two | ones | |
| amounts | A two-digit | |
| together using a | number and | |
| 'part, part, | tens | |
| whole' mat using | Two two- | |
| objects, record | digit | |
| pictorially. | numbers | |
| Subtract two | Adding | |
| amounts | three one- | |
| together using | digit | |
| real life objects | numbers | |
| and number | Show that | |
| blocks record | addition of two | |
| pictorially. | numbers can be | |
| Automatically | done in any | |
| recall 'add 1' and | order | |
| 'add 2' to 20. | (commutative) | |
| Automatically | and subtraction | |
| recall 'subtract 1' | of one number | |
| and 'subtract 2' | from another | |
| to 20. | cannot | |
| Add and subtract | Recognise and | |
| on a tens frame, | use the inverse | |
| recording | relationship | |
| pictorially and | between | |
| using | addition and | |
| mathematical | subtraction and | |
| symbols. | use this to check | |
| Symbols. | calculations and | |
| | solve missing | |
| | number | |
| | problems. | |



| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|----------------|----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|--|-------------------------------------|------------------------------|
| Multiplication | <u>Number</u> | Count in | Doubling and | Recall and use | • Recall | Identify | Multiply multi- |
| and Division | Know double | multiples of | <u>Halving:</u> | multiplication | multiplication | multiples and | digit numbers |
| | facts to 10. | twos, fives and | Recall and use | and division | and division | factors, | up to 4 digits by |
| | Know that | tens (using | multiplication | facts for the 3, 4 | facts for | including finding | a two-digit |
| | quantities can | various images | and division | and 8 | multiplication | all factor pairs | whole number |
| | be distributed | such as pairs of | facts for the 2, 5 | multiplication | tables up to 12 × | of a number, | using the formal |
| | equally between | socks, fingers, 5 | and 10 | tables | 12 | and common | written method |
| | two groups. | petaled flowers, | multiplication | Write and | Use place value, | factors of two | of long |
| | | hands) | tables, including | calculate | known and | numbers | multiplication |
| | Know that | Recognise and | recognising odd | mathematical | derived facts to | Know and use | Divide numbers |
| | numbers can be | know the value | and even | statements for | multiply and | the vocabulary | up to 4 digits by |
| | partitioned into | of different | numbers | multiplication | divide mentally, | of prime | a two-digit |
| | more than 2 | denominations | Calculate | and division | including: | numbers, prime | whole number |
| | groups. | of coins and | mathematical | using the | multiplying by 0 | factors and | using the formal |
| | Know that | notes and use | statements for | multiplication | and 1; dividing | composite (non- | written method |
| | doubles can | these to practice | multiplication | tables that they | by 1; multiplying | prime) numbers | of long division, |
| | help us to add | counting in 2s, | and division | know, including | together three | Establish | and interpret |
| | or subtract near | 5s, 10s | within the | for two-digit | numbers | whether a | remainders as |
| | doubles. | Solve one step | multiplication | numbers times | Recognise and | number up to | whole number |
| | | problems by | tables and write | one-digit | use factor pairs | 100 is prime and | remainders, |
| | Numerical Patterns | calculating the | them using the | numbers, using mental and | and | recall prime | fractions, or by |
| | Explore and . | answer using | multiplication (×), division (÷) | progressing to | commutativity in mental | numbers up to 19 | rounding, as appropriate for |
| | recognise | concrete | and equals (=) | formal written | calculations | | the context |
| | patterns in | objects, pictorial representations | signs | methods | | Multiply | Divide numbers |
| | number | with the support | Show that | Solve problems, | Multiply two- digit and three- | numbers up to 4 digits by a one- | up to 4 digits by |
| | including 'odd' and 'even' in | of the teacher: | multiplication of | including | digit and three- | or two-digit | a two-digit |
| | numbers to ten | Involving | two numbers | missing number | a one-digit | number using a | number using |
| | and beyond. | multiplicati | can be done in | problems, | number using | formal written | the formal |
| | Explore counting | on | any order | involving | formal written | method. | written method |
| | in 2's, 5's and | (grouping) | (commutative) | multiplication | layout | including long | of short division |
| | ten's, | (grouping) | and division of | and division, | Solve problems | multiplication | where |
| | ' | | and anvision of | including | involving | manaphaation | appropriate, |
| | recognising | | | including | IIIVOIVIII | | αρριοριίατε, |



| numerical | Involving | one number by | positive integer | multiplying and | for two-digit | interpreting |
|-----------|-----------------------------------|------------------------------------|------------------|------------------|------------------------------------|------------------------------------|
| patterns. | multiplicati | another cannot | scaling problems | adding, | numbers | remainders |
| | on (arrays) | Solve problems | and | including using | Multiply and | according to the |
| | Involving | involving | correspondence | the distributive | divide numbers | context |
| | division | multiplication | problems in | law to multiply | mentally | Perform mental |
| | (grouping) | and division, | which n objects | two digit | drawing upon | calculations, |
| | Involving | using materials, | are connected | numbers by one | known facts | including with |
| | division | arrays, repeated | to m objects | digit, integer | Divide numbers | mixed |
| | (arrays) | addition, mental | | scaling problems | up to 4 digits by | operations and |
| | Involving | methods, and | | and harder | a one-digit | large numbers |
| | division | multiplication | | correspondence | number using | Identify |
| | (sharing) | and division | | problems such | the formal | common |
| | Count in | facts, including | | as n objects are | written method | factors, |
| | multiples of | problems in | | connect | of short | common |
| | twos, fives and | contexts. | | | division and | multiples and |
| | tens (using | Recall and use | | | interpret | prime numbers |
| | various images | multiplication | | | remainders | Solve problems |
| | such as pairs of | and division | | | appropriately | involving |
| | socks, fingers, 5 | facts for the 2, 5 | | | for the context | addition, |
| | petaled flowers, | and 10 | | | Recognise and | subtraction, |
| | hands) | multiplication | | | use square | multiplication |
| | Recognise and | tables, including | | | numbers and | and division |
| | know the value | recognising odd | | | cube numbers, | Use estimation |
| | of different | and even | | | and the notation | to check |
| | denominations | numbers | | | for squared (2) | answers to |
| | of coins and | Calculate | | | and cubed (3) | calculations and |
| | notes and use | mathematical | | | Solve problems | determine, in |
| | these to practice | statements for | | | involving | the context of a |
| | counting in 2s, | multiplication | | | multiplication | problem, an |
| | 5s, 10s | and division | | | and division | appropriate |
| | Solve one step | within the | | | including using | degree of |
| | problems by | multiplication | | | their knowledge | accuracy. |
| | calculating the | tables and write | | | of factors and | |
| | answer using | them using the | | | multiples, | |
| | concrete objects, | multiplication | | | squares and | |
| | pictorial | (×), division (÷) | | | cubes | |



| 1 | | | 1 | | | | |
|---|---------|---------------|-------------------|------|---|--------------------|--|
| | | | and equals (=) | | • | Solve problems | |
| | the sup | port of the | signs | | | involving | |
| | teacher | r: • | Show that | | | addition, | |
| | • Inv | olving/ | multiplication of | | | subtraction, | |
| | mu | ultiplication | two numbers | | | multiplication | |
| | (gro | ouping) | can be done in | | | and division and | |
| | · - | | any order | | | a combination | |
| | | _ | (commutative) | | | of these, | |
| | | • | and division of | | | including | |
| | - | , , | one number by | | | understanding | |
| | | U | another cannot | | | the meaning of | |
| | - | | Solve problems | | | the equals sign | |
| | · - | . 0, | involving | | | Solve problems | |
| | | - 0 | multiplication | | | involving | |
| | | ` ', ' | and division, | | | multiplication | |
| | | | using materials, | | | and | |
| | - | | arrays, repeated | | | division, includin | |
| | (sn | 0, | addition, mental | | | • | |
| | | | | | | g scaling by | |
| | | | methods, and | | | simple fractions | |
| | | | multiplication | | | and problems | |
| | | | and division | | | involving simple | |
| | | | facts, including | | | rates. | |
| | | | problems in | | | | |
| | | | contexts | | | | |



| YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|-----------|--|---|---|---|--|--|
| Fractions | 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 one third, one quarter, two quarters and three quarters of a length, shape, set of objects or quantity Write simple fractions for example, a half of 6 = 3 and recognise the equivalence of two quarters and a half. | 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 denominators. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise and show, using diagrams, equivalent fractions with small denominators. Add and subtract fractions with the same denominator within one whole | Recognise and show, using diagrams, families of common equivalent fractions Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. 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 Add and subtract fractions with the same denominator | Compare and order fractions whose denominators are all multiples of the same number 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 statements > 1 as a mixed number [for example, ²/₅ + ⁴/₅ = ⁶/₅ = ¹/₅] Add and subtract fractions with the same denominator and denominators that are multiples of the same number | Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ × ½ = 1/8] Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6] |



| 6) [for example, 5/7 + 1/7 = 6/7] 7) compare and order unit fractions, and fractions with the same denominators | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams |
|---|---|
| Solve problems that involve all of the above. | |

| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|----------|----|----|----|----|--|---|---|
| Decimals | | | | | Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to one quarter, a half, three quarters 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 Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places up to two decimal places Solve simple measure and money problems involving fractions and decimals to two decimal places. | Read and write decimal numbers as fractions [for example, 0.71 = | Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] 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 Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specified degrees of accuracy |



| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|-------------|----|----|----|----|----|---|--|
| Percentages | | | | | | 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 Solve problems which require knowing percentage and decimal equivalents of ¹/₂, ¹/₄, ¹/₅, ²/₅, ⁴/₅ and those fractions with a denominator of a multiple of 10 or 25. | Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |

| | YR | Y1 | Y2 | | Y3 | | Y4 | | Y5 | Y6 |
|------------------------|----|--|---|---|---|---|---|---|---|----|
| Measurement (Money) | | Recognise and know the value of different denominations of coins and notes and use these to practice counting in 2s, 5s, 10s | Count in 1s, 10s, 2s, 20s, 5s, 50s, Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of 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. | • | Add and subtract amounts of money to give change, using both £ and p in practical context | • | Estimate, compare and calculate different measures, including money in pounds and pence | • | Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. | |



| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|--------------|-----------------------------|--|------------------------------------|-----------------------------|-------------------------------|------------------------------------|----------------------------|
| Measurement | <u>Compare</u> | <u>Length</u> | Choose and | • Measure, | Y3 measure | Convert between | Solve problems |
| (Length, | Quantities/Shapes | Compare, describe and | use | compare, add | expectations to | different units of | involving the |
| Weight/Mass) | Compare | solve practical problems | appropriate | and subtract: | revisit: | metric measure | calculation and |
| | length using | for: | standard units | Lengths | Measure, | (for example, | conversion of |
| | 'longer' and | Lengths and heights (for | to estimate | (m/cm/ | compare, add | kilometre and | units of |
| | 'shorter'. | example, long/short, | and measure | mm); | and subtract: | metre; | measure, using |
| | Compare | longer/shorter, | to the nearest | Mass | Lengths | centimetre and | decimal |
| | quantities | tall/short, double/half) | appropriate | (kg/g); | (m/cm/m | metre; | notation up to |
| | using 'full' and | Measure and begin to | unit, using | Volume/ | m); | centimetre and | three decimal |
| | 'empty', | record lengths and | rulers, scales, | capacity | • Mass | millimetre; gram | places where |
| | 'heavier' and | heights. | thermometers | (l/ml) b) | (kg/g); | and kilogram; | appropriate |
| | ʻlighter'. | Mass/Weight | and measuring | | Volume/c | litre and | • Use, read, |
| | | Compare, describe and | vessels: | | apacity | millilitre) | write and |
| | | solve practical problems | length/hei | | (I/mI) | Understand and | convert |
| | | for: | ght in any direction | | • Convert | use approximate | between standard units, |
| | | Mass/weight: [for | (m/cm); | | between | equivalences bet ween metric units | , |
| | | example, | , , , ,, | | different units | and common | converting measurements |
| | | heavy/light, heavier | mass (kg/g); | | of measure | imperial units | of length, |
| | | than, lighter than]; | • temperatu | | [for example, kilometre to | such as inches, | mass, volume |
| | | Measure and begin to record: | re(°C); | | metre; hour to | pounds and pints | and time from |
| | | | • capacity | | minute] | Use all four | a smaller unit |
| | | Mass/weight; Canacity | (litres/ml) | | illillutej | operations to | of measure to |
| | | Capacity Compare, describe and | Compare and | | | solve problems | a larger unit, |
| | | solve practical problems | order lengths, | | | involving | and vice versa, |
| | | for: | mass, | | | measure [for | using decimal |
| | | Capacity and volume | volume/capacit | | | example, length, | notation to up |
| | | [for example, | y and record | | | mass, volume, | to three |
| | | full/empty, more than, | the results | | | money] using | decimal places |
| | | less than, half, half full, | using >, < and = | | | decimal notation, | • Convert |
| | | quarter] | 5 , | | | including scaling. | between miles |
| | | 420.00.1 | | | | | and kilometres |



| Measure and begin to | | |
|----------------------|--|--|
| record: | | |
| Capacity and volume | | |

| | YR | Y1 | Y2 | | Y3 | | Y4 | | Y5 | | Y6 |
|--------------------|----|--|--|---|--|---|--|---|--|---|---|
| Measurement (Time) | | Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. Recognise and use language relating to dates, including days of the week, weeks, months and years. Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. (link this to the knowledge to prior learning of halves and quarters in fractions and position and direction) | Compare and sequence intervals of time 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 Know the number of minutes in an hour and the number of hours in a day. | • | Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks 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 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 | • | Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days | • | Solve problems involving converting between units of time (Pupils use all four operations in problems involving time and money, including conversions (for example, days to weeks, expressing the answer as weeks and days). Solve problems involving converting between units of time | • | 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 |



| Measure and begin to record time (hours, minutes, seconds) Measure and begin to particular events or tasks]. | |
|---|--|
|---|--|

| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|--|----|----|----|--|---|--|---|
| Measurement (Area and Perimeter) | | | | Measure the perimeter of simple 2-D shapes | Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the area of rectilinear shapes | Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] | illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]. |



| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|----------|----------------------------------|-----------------------------------|----------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|---------------------------------|
| Geometry | <u>Compare</u> | Recognise and | Identify and | Draw 2-D shapes | Compare and | Identify 3-D | Draw 2-D shapes |
| (Shape) | Quantities/Shapes | name common | describe the | and make 3-D | classify | shapes, including | using given |
| | Name 2D | 2-D shapes, | properties of 2-D | shapes using | geometric | cubes and other | dimensions and |
| | shapes. | including: (for | shapes, including | modelling | shapes, including | cuboids, from 2- | angles |
| | Name 3D | example, | the number of | materials; | quadrilaterals | D | Recognise, |
| | shapes. | rectangles | sides and line | recognise 3-D | and triangles, | representations | describe and |
| | Match 2D and | (including | symmetry in a | shapes in | based on their | Know angles are | build simple 3-D |
| | 3D shapes. | squares), circles | vertical line | different | properties and | measured in | shapes, including |
| | | and triangles) | Identify and | orientations and | sizes | degrees: | making nets |
| | | Recognise and | describe the | describe them | Identify acute | estimate and | Compare and |
| | | name common | properties of 3-D | Recognise angles | and obtuse | compare acute, | classify |
| | | 3-D shapes, | shapes, including | as a property of | angles and | obtuse and | geometric |
| | | including: (for | the number of | shape or a | compare and | reflex angles | shapes based on |
| | | example, | edges, vertices | description of a | order angles up | Draw given | their properties |
| | | cuboids | and faces | turn | to two right | angles, and | and sizes and |
| | | (including | Identify 2-D | Identify right | angles by size | measure them in | find unknown |
| | | cubes), pyramids | shapes on the | angles, recognise | Identify lines of | degrees (°) | angles in any |
| | | and spheres.) | surface of 3-D | that two right | symmetry in 2-D | Identify: | triangles, |
| | | | shapes [for | angles make a | shapes | Angles at | quadrilaterals, |
| | | | example, a circle | half-turn, three | presented in | a point and | and regular |
| | | | on a cylinder and | make three | different | one whole | polygons |
| | | | a triangle on a | quarters of a | orientations | turn (total | Recognise angles |
| | | | pyramid] | turn and four a | Complete a | 360°) | where they meet |
| | | | Compare and | complete turn; | simple | Angles at a | at a point, are on |
| | | | sort common 2- | identify whether | symmetric figure | point on a | a straight line, or |
| | | | D and 3-D | angles are | with respect to a | straight line | are vertically |
| | | | shapes and | greater than or | specific line of | and 1/2 a | opposite, and |
| | | | everyday | less than a right | symmetry | turn (total | find missing |
| | | | objects. | angle | | 180°) | angles. |



| Identify | o Other |
|--------------------|-----------------|
| horizontal and | multiples of |
| vertical lines and | 90° |
| pairs of | Use the |
| perpendicular | properties of |
| and parallel | rectangles to |
| lines. | deduce related |
| | facts and find |
| | missing lengths |
| | and angles |
| | Distinguish |
| | between regular |
| | and irregular |
| | polygons based |
| | on reasoning |
| | about equal |
| | sides and |
| | angles. |
| | aligics. |



| | | YR | | Y1 | | Y2 | Y3 | | Y4 | | Y5 | | Y6 |
|--|---|---|---|--|---|--|----|---|--|------|--|---|---|
| Geometry (Position and Direction) | • | Copy an AB AB pattern, progressing to ABC, ABC then . Continue an AB AB pattern progressing to ABC, ABC. Make own AB AB pattern progressing to ABC, ABC, then ABB, ABBC. Spot an error in an AB AB pattern progressing to ABC, ABC. Identify the unit of pattern. Represent a variety of patterns. Repeat patterns in a circle or square. | • | Describe position, direction and movement, including whole, half, quarter and three quarter turns (link this knowledge to fractions) | • | 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 quarter, half and three-quarter turns (clockwise and anticlockwise). | | • | 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. | No • | 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. tes and guidance: Pupils recognise and use reflection and translation in a variety of diagrams, including continuing to use a 2-D grid and coordinates in the first quadrant. Reflection should be in lines that are parallel to the axes. | • | 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. |



| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|------------|----|----|---|--|--|--|---|
| Statistics | | | Interpret and construct simple pictograms, tally charts, block diagrams and simple tables Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and comparing categorical data | Interpret and present data using bar charts, pictograms and tables 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. | Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. | Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables, including timetables. | interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average. |



| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|------------|----|----|----|----|----|----|--|
| Ratio and | | | | | | | solve problems involving the relative sizes of two quantities where missing values can be found by using |
| Proportion | | | | | | | integer multiplication and division facts |
| | | | | | | | • solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] |
| | | | | | | | and the use of percentages for comparison |
| | | | | | | | 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. |

| | YR | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|---------|----|----|----|----|----|----|--|
| Algebra | | | | | | | use simple formulae |
| | | | | | | | generate and describe linear number sequences |
| | | | | | | | express missing number problems algebraically |
| | | | | | | | find pairs of numbers that satisfy an equation with two unknowns |
| | | | | | | | enumerate possibilities of combinations of two variables. |