

Number and Place Value *Red text denotes where a strand starts specific to year groups

Counting					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.			Count backwards through 0 to include negative numbers.	Interpret negative numbers in context, count forwards and backwards with positive numbers, including through 0.	Use negative numbers in context, and calculate intervals across zero.
Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.	Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward or backward.	Count from 0 in multiples of 4, 8, 50 and 100.	Count in multiples of 6, 7, 9, 25 and 1,000.	Count forwards or backwards in steps of powers of 10 for any given number to 1,000,000.	
Given a number; identify one more and one less.		Find 10 or 100 more or less than a given a number.	Find 1,000 more or less than a given number.		
Comparing Numbers					
Use the language of: equal to, more than, less than (fewer), most, least.	Compare and order numbers from 0 up to 100; use <, > and = signs.	Compare and order numbers up to 1,000.	Order and compare numbers beyond 1,000.	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (appears also in Reading and Writing Numbers).	Read, write, order and compare numbers to 10,000,000 and determine the value of each digit (appears also in Reading and Writing Numbers).
			Compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)		
Identifying, Representing and Estimating Numbers					
	Identify and represent numbers using objects and pictorial representations including the number line.	Identify, represent and estimate numbers using different representations, including the number line.	Identify, represent and estimate numbers using different representations	Identify, represent and estimate numbers using different representations.	
Reading and Writing Numbers (including Roman Numerals)					
Read and write numbers from 1 to 20 in numerals and words.	Read and write numbers to at least 100 in numerals and words.	Read and write numbers up to 1,000 in numerals and in words.	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.	Read, write, order and compare numbers to at least 1, 000 000 and determine the place value of each digit (appears also in Comparing Numbers.)	Read, write, order and compare numbers to 10, 000 000 and determine the value of each digit (appears also in Understanding Place Value.)
		<i>Tell and write the time from an analogue clock, including using Roman</i>		Read Roman numerals to 1,000 (M) and recognise	

		<i>Numerals from I to XII, and 12-hour and 24-hour clocks. (Copied from Measurement).</i>		years written in Roman Numerals.	
Understanding Place Value					
	<i>Recognise the place value of each digit in a two-digit number (tens, ones).</i>	Recognise the place value of each digit in a three-digit number (hundreds, tens, and ones).	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones).	Read, write, order and compare numbers to at least 1, 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers). Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. (Copied from Fractions).	Read, write, order and compare numbers up to 10, 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers). Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1,000 were the answers are up to three decimal places. (Copied from Fractions).
			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 units, tenths and hundredths. (Copied from Fractions).		
Rounding					
			<i>Round any number to the nearest 10, 100 or 1,000.</i>	Round any number up to 1, 000 000 to the nearest 10, 100 and 1,000, 10,000 and 100,000. Round decimals with two decimal places to the nearest whole number and to one decimal place. (Copied from Fractions).	Solve problems which require answers to be rounded to specified degrees of accuracy. (Copied from Fractions.)
			<i>Round decimals with one decimal place to the nearest whole number. (Copied from Fractions.)</i>		
Problem Solving					
	<i>Use place value and number facts to solve problems.</i>	Solve number problems and practical problems involving these ideas.	Solve number and practical problems that involve all of the above and with increasingly large positive numbers.	Solve number problems and practical problems that involve all of the above.	Solve number problems and practical problems that involve all of the above.

Adding and Subtracting

Counting

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Represent and use number bonds and related subtraction facts within 20.	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.				
Mental Calculation					
Add and subtract one-digit and two-digit numbers to 20, including zero.	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers.	Add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * a three-digit number and hundreds.		Add and subtract numbers mentally with increasingly large numbers.	Perform mental calculations, including with mixed operations and large numbers.
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods).	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.				Use their knowledge of the order of operations to carry out calculations involving the four operations.
Written Methods					
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation).		Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).	
Inverse Operations, Estimating and Checking Answers					
	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	Estimate the answer to a calculation and use inverse operations to check answers.	Estimate and use inverse operations to check answers to a calculation.	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
Problem Solving					

Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.	Solve problems with addition and subtraction: * using concrete objects and pictorial representations, including those involving numbers, quantities and measures * applying their increasing knowledge of mental and written methods	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement).				Solve problems involving addition, subtraction, multiplication and division

Multiplication and Division

Multiplication and Division Facts					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Count in multiples of twos, fives and tens (copied from Number and Place Value).	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (Copied from Number and Place Value).	Count from 0 in multiples of 4, 8, 50 and 100 (Copied from Number and Place Value).	Count in multiples of 6, 7, 9, 25 and 1 000 (Copied from Number and Place Value).	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (Copied from Number and Place Value).	
	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Recall multiplication and division facts for multiplication tables up to 12×12 .		
Mental Calculation					
		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 (appears also in Written Methods).	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	Multiply and divide numbers mentally drawing upon known facts.	Perform mental calculations, including with mixed operations and large numbers.
	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.		Recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of Numbers).	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$). (Copied from Fractions).
Written Calculation					
	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.	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.	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

	(\times), division (\div) and equals (=) signs.	one-digit numbers, using mental and progressing to formal written methods (appears also in Mental Methods).			
				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.	Divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where appropriate for the context 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. Use written division methods in cases where the answer has up to two decimal places (copied from Fractions (including decimals)).
Properties of Numbers: Multiples, Factors, Prime, Square and Cube Numbers					
			Recognise and use factor pairs and commutativity in mental calculations (repeated).	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19.	Identify common factors, common multiples and prime numbers. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination (Copied from Fractions).
				Recognise and use square numbers and cube	Calculate, estimate and compare volume of cubes

				numbers, and the notation for squared (2) and cubed (3).	and cuboids using standard units, including centimetre cubed (cm^3) and cubic metres (m^3), and extending to other units such as mm^3 and km^3 . (Copied from Measures).
Order of Operations					
					Use their knowledge of the order of operations to carry out calculations involving the four operations.
Inverse Operations, Estimating and Checking Answers					
		Estimate the answer to a calculation and use inverse operations to check answers. (Copied from Addition and Subtraction).	Estimate and use inverse operations to check answers to a calculation. (Copied from Addition and Subtraction).		Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
Problem Solving					
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 objects.	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.	Solve problems involving addition, subtraction, multiplication and division.
				Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	
				Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	Solve problems involving similar shapes where the scale factor is known or can be found. (Copied from Ratio and Proportion).

Fractions (Including Decimals and Percentages)

Counting in Fractional Steps					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (Non Statutory Guidance).	Count up and down in tenths.	Count up and down in hundredths.		
Recognising Fractions					
Recognise, find and name a half as one of two equal parts of an object, shape or quantity.	Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, and a set of objects or quantity.	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.	Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence).	
Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.		Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.			
		Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.			
Comparing Fractions					
		Compare and order unit fractions, and fractions with the same denominators.		Compare and order fractions whose denominators are all multiples of the same number.	Compare and order fractions, including fractions >1 .
Comparing Decimals					
			Compare numbers with the same number of decimal places up to two decimal places.	Read, write, order and compare numbers with up to three decimal places.	Identify the value of each digit in numbers given to three decimal places.
Rounding Including Decimals					

			Round decimals with one decimal place to the nearest whole number.	Round decimals with two decimal places to the nearest whole number and to one decimal place.	Solve problems which require answers to be rounded to specified degrees of accuracy.
Equivalence (including Fractions, Decimals and Percentages)					
	Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	Recognise and show, using diagrams, equivalent fractions with small denominators.	Recognise and show, using diagrams, families of common equivalent fractions.	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
Addition and Subtraction of Fractions					
		Add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	Add and subtract fractions with the same denominator.	Add and subtract fractions with the same denominator and multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$).	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
Multiplication and Division of Fractions					
				Multiply 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 (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$).
					Multiply one-digit numbers with up to two decimal places by whole numbers.
					Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$).
					Multiply one-digit numbers with up to two decimal places by whole numbers.
			Find the effect of dividing a one- or two-digit number		Multiply and divide numbers by 10, 100 and

			by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.		1000 where the answers are up to three decimal places.
					Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.
					Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$).
					Use written division methods in cases where the answer has up to two decimal places.
Problem Solving					
		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.	Solve problems involving numbers up to three decimal places.	
			Solve simple measure and money problems involving fractions and decimals to two decimal places.	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 with a denominator of a multiple of 10 or 25.	

Ratio and Proportion

Statements only appear in Year 6 but should be connected to previous learning, particularly fractions and multiplication and division					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					Solve problems involving the relative sizes of two quantities where missing values can be found by using 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.

Algebra

Equations					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ (Copied from Addition and Subtraction).	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems . (Copied from Addition and Subtraction).	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction). Solve problems, including missing number problems, involving multiplication and division, including integer scaling. (Copied from Multiplication and Division).		Use the properties of rectangles to deduce related facts and find missing lengths and angles . (Copied from Geometry: Properties of Shapes).	Express missing number problems algebraically.
	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. (Copied from Addition and Subtraction).				Find pairs of numbers that satisfy number sentences involving two unknowns.
Represent and use number bonds and related subtraction facts within 20. (Copied from Addition and Subtraction).					Enumerate all possibilities of combinations of two variables.
Formulae					
			Perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit. (Copied from NSG measurement).		Use simple formulae. Recognise when it is possible to use formulae for area and volume of shapes. (Copied from Measurement).
Sequences					
Sequence events in chronological order using language such as: before and after, next, first, today, yesterday,	Compare and sequence intervals of time. (Copied from Measurement).				Generate and describe linear number sequences

tomorrow, morning, afternoon and evening. (Copied from Measurement).	Order and arrange combinations of mathematical objects in patterns. (Copied from Geometry: position and direction).				
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Measurement

Comparing and Estimating					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Compare, describe and solve practical problems for:</p> <ul style="list-style-type: none"> * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]. 	<p>Compare and order lengths, mass, volume/capacity and record the results using >, < and =</p>		<p>Estimate, compare and calculate different measures, including money in pounds and pence (appears also in Measuring).</p>	<p>Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes (appears also in Measuring).</p> <p>Estimate volume (e.g. using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g. using water).</p>	<p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³.</p>
<p>Sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].</p>	<p>Compare and sequence intervals of time.</p>	<p>Compare durations of events, for example to calculate the time taken by particular events or tasks.</p>			
		<p style="color: red;">Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Telling the Time).</p>			

Measuring and Calculating

Measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds).	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Estimate, compare and calculate different measures , including money in pounds and pence (appears also in Comparing).	Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	Solve problems involving the calculation and conversion of units of measure , using decimal notation up to three decimal places where appropriate (appears also in Converting).
		Measure the perimeter of simple 2-D shapes.	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	Recognise that shapes with the same areas can have different perimeters and vice versa.
Measuring and Calculating					
Recognise and know the value of different denominations of coins and notes .	Recognise and use symbols for pounds (£) and pence (p) ; combine amounts to make a particular value.	Add and subtract amounts of money to give change, using both £ and p in practical contexts.			
	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.				
			Find the area of rectilinear shapes by counting squares.	Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes. Recognise and use square numbers and cube numbers, and the notation	Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [e.g. mm ³ and km ³].

				for squared (²) and cubed (³). (Copied from Multiplication and Division).	Recognise when it is possible to use formulae for area and volume of shapes.
Telling the Time					
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	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.	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.	Read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting).		
Recognise and use language relating to dates, including days of the week, weeks, months and years	Know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating).			
			Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting).	Solve problems involving converting between units of time.	
Converting					
	Know the number of minutes in an hour and the number of hours in a day (appears also in Telling the Time).	Know the number of seconds in a minute and the number of days in each month, year and leap year.	Convert between different units of measure (e.g. kilometre to metre; hour to minute).	Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).	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.

			Read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting).	Solve problems involving converting between units of time.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating).
			Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time).	Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints.	Convert between miles and kilometres.

Geometry: Properties of Shape

Identifying Shapes and Their Properties					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.		Identify lines of symmetry in 2-D shapes presented in different orientations.	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.	Recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing).
	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.				Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].
	Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].				
Drawing and Constructing					
		Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.	Complete a simple symmetric figure with respect to a specific line of symmetry.	Draw given angles, and measure them in degrees ($^{\circ}$).	Draw 2-D shapes using given dimensions and angles.
					Recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and their Properties).
Comparing and Classifying					
	Compare and sort common 2-D and 3-D shapes and everyday objects.		Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
				Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	
Angles					

		Recognise angles as a property of shape or a description of a turn.		Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.	
		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.	Identify acute and obtuse angles and compare and order angles up to two right angles by size.	Identify: * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) * other multiples of 90° .	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
		Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.			

Geometry: Position and Direction

Position: Direction and Movement					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Describe position, direction and movement, including half, quarter and three-quarter turns.	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 anti-clockwise).		Describe positions on a 2-D grid as coordinates in the first quadrant.	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).
			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.		
Pattern					
	Order and arrange combinations of mathematical objects in patterns and sequences.				

Statistics

Interpreting, Constructing and Presenting Data					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Interpret and present data using bar charts, pictograms and tables.	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	Complete, read and interpret information in tables, including timetables.	Interpret and construct pie charts and line graphs and use these to solve problems.
	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.				
Solving Problems					
		Solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	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.	Calculate and interpret the mean as an average.