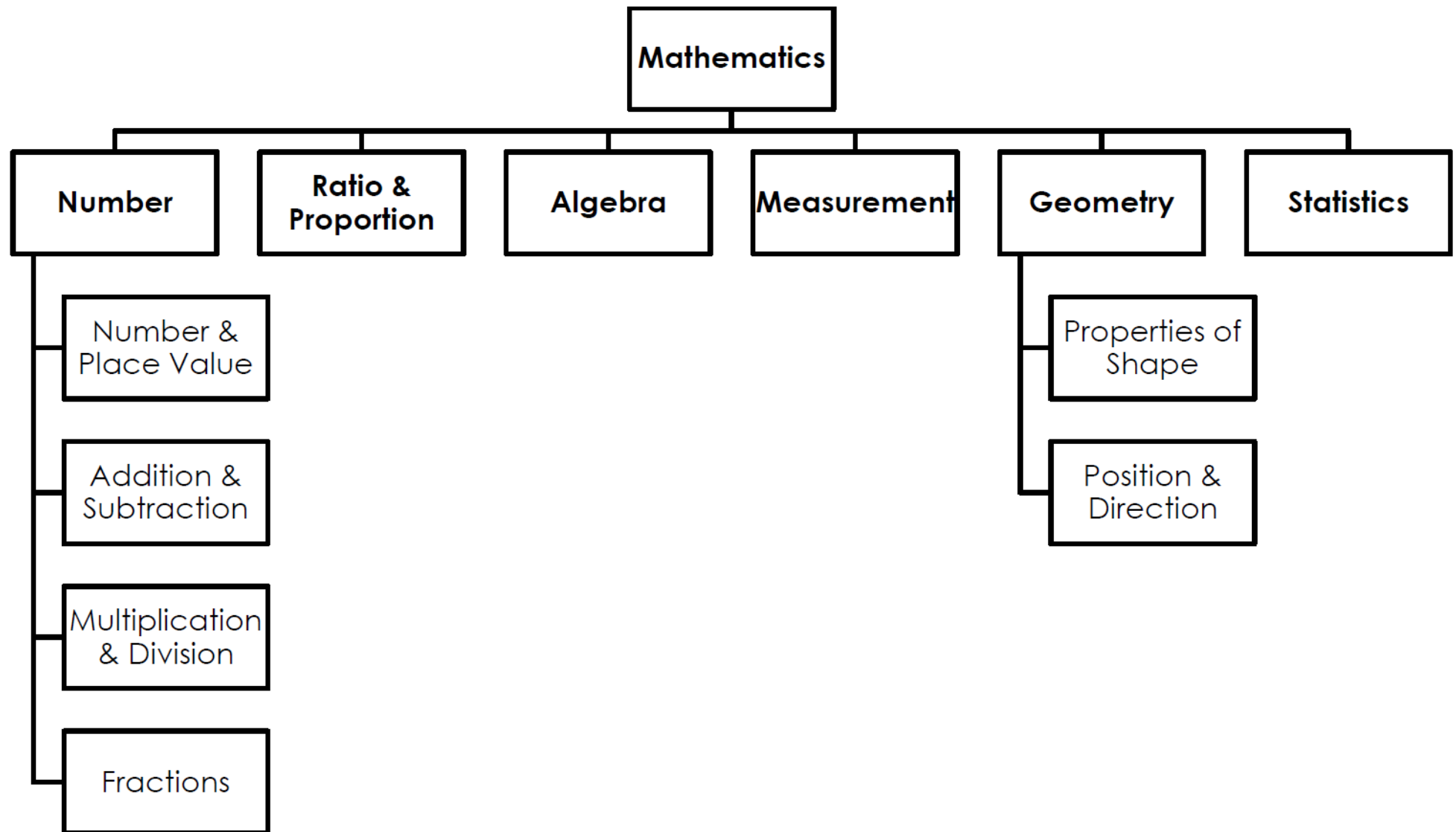




English Progression  
Writing Expectation History  
Mathematics Science PE Languages  
Art Geography DT Computing Differentiation  
Progression Expectation **National Curriculum**  
Languages English Writing Progression  
Differentiation Science Art  
Mathematics Expectation

**Progression in the new National Curriculum**



## Number, place value & rounding

Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
<b>Count</b> reliably with numbers from 1 – 20.	<b>Count</b> to and across 100, forward & backwards, beginning with 0 or 1, or from any given number.			<b>Count</b> backwards through zero to include negative numbers.	<b>Count</b> forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	
					Interpret <b>negative numbers</b> in context, count forwards and backwards with positive and negative whole numbers, including through zero.	Use <b>negative numbers</b> in context, & calculate intervals across zero.
	Count in <b>multiples</b> including 2s, 5s, and 10s.	Count in <b>steps</b> of 2, 3 & 5 from 0, and in tens from any number, forward & backward.	Count from 0 in <b>multiples</b> of 4, 8, 50 & 100.	Count in <b>multiples</b> of 6, 7, 9, 25 & 1000.		
Say which is 1 <b>more</b> or 1 <b>less</b> than a given number (to 20).	Given a number, identify 1 <b>more</b> and 1 <b>less</b> .		Find 10 or 100 <b>more</b> or <b>less</b> than a given number.	Find 1000 <b>more</b> or <b>less</b> than a given number.		
	<b>Identify and represent</b> numbers using concrete objects and pictorial representations including the number line, & use the language of: equal to, more than, less than (fewer), most, least.	<b>Identify, represent &amp; estimate</b> numbers using different representations, incl the number line.	<b>Identify, represent &amp; estimate</b> numbers using different representations.	<b>Identify, represent &amp; estimate</b> numbers using different representations.		
	<b>Read &amp; write</b> numbers to 100 in numerals.  <b>Read &amp; write</b> numbers from 1 – 20 in numerals & words	<b>Read &amp; write</b> numbers to at least 100 in numerals and in words.	<b>Read &amp; write</b> numbers to at least 1000 in numerals & in words.		<b>Read, write, order &amp; compare</b> numbers to at least 1 000 000 & determine the value of each digit.	<b>Read, write, order &amp; compare</b> numbers up to 10 000 000 & determine the value of each digit.
<b>Order</b> numbers 1 – 20.		<b>Compare &amp; order</b> numbers from 0 up to 100; use <, > & = signs.	<b>Compare &amp; order</b> numbers up to 1000.	<b>Compare &amp; order</b> numbers beyond 1000.		
		Recognise the <b>place value</b> of each digit in a 2-digit number.	Recognise the <b>place value</b> of each digit in a 3-digit number.	Recognise the <b>place value</b> of each digit in a 4-digit number.	Read, write, order & compare numbers to at least 1 000 000 & determine the <b>value</b> of each digit.	
				<b>Round</b> any number to the nearest 10, 100 or 1000.	<b>Round</b> any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 & 100 000.	<b>Round</b> any whole number to a required degree of accuracy.
				Read <b>Roman numerals</b> to 100 (I to C) & understand that over time, the numeral system changed to include the concept of zero & place value.	Read <b>Roman numerals</b> to 1000 (M) and recognise years written in Roman numerals.	
		Use place value & number facts to <b>solve problems</b> .	Solve <b>number problems &amp; practical problems</b> involving these ideas.	Solve <b>number &amp; practical problems</b> that involve all of the above & with increasingly large positive numbers.	Solve <b>number &amp; practical problems</b> that involve all of the above.	Solve <b>number &amp; practical problems</b> that involve all of the above.



Addition and subtraction						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
	Read, write & interpret mathematical statements involving + = signs.					
	Represent and use number bonds & related subtraction facts within 20.	<b>Recall</b> & use addition & subtraction facts to 20 fluently, & derive & use related facts up to 100.				
	Solve <b>one-step problems</b> that involve addition & subtraction, using concrete objects & pictorial representations, & missing number problems,	Solve <b>problems</b> with addition & subtraction: <ul style="list-style-type: none"> <li>- Using concrete objects &amp; pictorial representations, incl those involving numbers, quantities &amp; measures</li> <li>- Applying their increasing knowledge of mental &amp; written methods</li> </ul>		Solve addition & subtraction <b>two-step problems</b> in contexts, deciding which operations & methods to use & why.	Solve addition & subtraction <b>multi-step problems</b> in contexts, deciding which operations & methods to use & why.	Solve addition & subtraction <b>multi-step problems</b> in contexts, deciding which operations & methods to use & why.
<b>Add &amp; subtract two single digit numbers.</b> ELG  <b>Count on or back</b> to find the answer. ELG	<b>Add &amp; subtract</b> 1-digit & 2-digit numbers to 20, including zero.	<b>Add &amp; subtract</b> numbers using concrete objects, pictorial representations, & mentally, including: <ul style="list-style-type: none"> <li>- 2-digit no &amp; ones</li> <li>- 2-digit no &amp; tens</li> <li>- Two 2-digit numbers</li> <li>- Adding three 1-digit numbers</li> </ul>	<b>Add &amp; subtract</b> numbers mentally, including: <ul style="list-style-type: none"> <li>- 3-digit no &amp; ones</li> <li>- 3-digit no &amp; tens</li> <li>- 3-digit no &amp; hundreds</li> </ul>		<b>Add &amp; subtract</b> numbers mentally with increasingly large numbers.	Perform mental calculations, incl with <b>mixed operations</b> & large numbers.
			<b>Add &amp; subtract numbers with up to 3 digits</b> , using formal written methods of columnar addition & subtraction.	<b>Add &amp; subtract numbers with up to 4 digits</b> using the formal written methods of columnar addition & subtraction where appropriate.	<b>Add &amp; subtract whole numbers with more than 4 digits</b> including using formal written methods (columnar addition & subtraction).	Use knowledge of the order of operations to carry out calculations involving <b>four operations</b> .
		Show that addition of two numbers can be done in any order ( <b>commutative</b> ) & subtraction of one number from another cannot.				
		Recognise & use the <b>inverse</b> relationship between addition & subtraction & use this to check calculations & missing number problems.	<b>Estimate</b> the answer to a calculation & use the <b>inverse</b> operations to check answers.	<b>Estimate</b> & use <b>inverse</b> operations to check answers to a calculation.	Use <b>rounding</b> to check answers to calculations & determine, in the context of a problem, levels of accuracy.	Use <b>estimation</b> to check answers to calculations & determine, in the context of a problem, levels of accuracy.
			<b>Solve problems</b> , incl missing number problems, number facts, place value, & more complex addition & subtraction.			<b>Solve problems</b> involving addition, subtraction, multiplication & division.



Multiplication and division						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
		Recall & use multiplication & division facts for the <b>2, 5, 10 tables</b> , incl recognising odd & even nos.	Recall & use the <b>multiplication &amp; division facts for the 3, 4, 8 tables</b> .	Recall <b>multiplication &amp; division facts for tables up to 12x12</b>	Identify all <b>multiples &amp; factors</b> , including finding all factor pairs of a number, & common factors of two numbers.	Identify <b>common factors, common multiples &amp; prime numbers</b> .
					Know & use the <b>vocabulary of prime numbers, prime factors &amp; composite</b> (non-prime) numbers.	
					Establish where a number up to 100 is <b>prime</b> & recall prime numbers up to 19.	
		Calculate the <b>mathematical statements</b> for multiplication & division within the multiplication tables & write them using $\times$ $\div$ = signs.				
		Show that multiplication of two numbers can be done in any order ( <b>commutative</b> ) & division of one number by another cannot.		Recognise & use factor pairs & <b>commutativity</b> in mental calculations.		
					Multiply & divide numbers <b>mentally</b> drawing upon known facts.	Perform <b>mental</b> calculations, incl mixed operations & large numbers.
			Write & calculate mathematical statements for multiplication & division <b>using the multiplication tables</b> that they know, incl 2-digit $\times$ 1-digit, using mental & progressing to formal written methods.	<b>Multiply</b> 2-digit & 3-digit numbers by a 1-digit number using formal written layout.	<b>Multiply</b> numbers up to 4-digits by a 1-digit or 2-digit number using a formal written method, including long multiplication for 2-digit numbers.	<b>Multiply</b> multi-digit numbers up to 4-digits by a 2-digit whole number using the formal written method of <b>long multiplication</b> .
					<b>Divide</b> numbers up to 4-digits by a 1-digit number using the formal written method of short division & interpret remainders appropriately for the context.	<b>Divide</b> numbers up to 4-digits by a 2-digit whole number using the formal written method of <b>long division</b> , & interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
						<b>Divide</b> numbers up to 4-digits by a 2-digit number using the formal written method of <b>short division</b> where appropriate, interpreting remainders according to the context.

				Use place value, known & derived facts to multiply & divide mentally, including <b>multiplying by 0 and 1; dividing by 1</b> ; multiplying three numbers together.	<b>Multiply &amp; divide</b> whole numbers & those involving decimals <b>by 10, 100 and 1000</b> .	
					Recognise & use <b>square numbers &amp; cube numbers</b> , & the notation for squared <sup>2</sup> and cubed <sup>3</sup> .	
<b>Solve problems</b> , including doubling, halving & sharing. ELG	Solve <b>one-step problems</b> involving multiplication & division, calculating the answer using concrete objects, pictorial representations & arrays with the support of the teacher.	Solve <b>problems</b> involving multiplication & division, using materials, arrays, repeated addition, mental methods, & multiplication & division facts, incl problems in context.	<b>Solve problems</b> , incl missing number problems, involving multiplication & division, incl integer scaling problems & correspondence problems in which n objects are connected to m objects.	<b>Solve problems</b> involving multiplying and adding, including the distributive law to multiply 2-digit numbers by 1-digit, integer scaling problems & harder multiplication problems such as n objects are connected to m objects.	<b>Solve problems</b> involving addition, subtractions, multiplication & division & a combination of these, incl understanding the meaning of the equals sign.	Use knowledge of the order of operations to carry out calculations involving <b>four operations</b> .
					<b>Solve problems</b> involving multiplication & division, including scaling by simple fractions & problems involving simple rates.	<b>Solve problems</b> involving addition, subtraction, multiplication & division.
					<b>Solve problems</b> involving multiplication & division including using their knowledge of factors & multiples, squares and cubes.	

## Fractions, decimals and percentages

Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
						Associate a fraction with division & calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$ ).
Solve problems, including <b>doubling, halving &amp; sharing</b> . ELG	Recognise, find & name a <b>half</b> as one of two equal parts of an object, shape or quantity.  Recognise, find & name a <b>quarter</b> as one of four equal parts of an object, shape or quantity.	Recognise, find, name & write fractions <b><math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math></b> , and <b><math>\frac{3}{4}</math></b> or a length, shape, set of objects or quantity.		Recognise & show, using diagrams, families of common <b>equivalent fractions</b> .  Recognise & write <b>decimal equivalents</b> on any number of tenths or hundredths.  Recognise & write <b>decimal equivalents</b> to $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$ .	Identify, name & write <b>equivalent fractions</b> of a given fraction, represented visually, incl tenths & hundredths.  <b>Read &amp; write decimal numbers</b> as fractions (e.g. $0.71 = \frac{71}{100}$ ).	Identify the <b>value of each digit to three decimal places</b> and multiply & divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
				<b>Find the effect</b> of dividing a 1-digit or 2-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths.		
		<b>Write simple fractions</b> , e.g. $\frac{1}{2}$ or $6 \div 3$ and recognise the <b>equivalence</b> of $\frac{2}{4}$ & $\frac{1}{2}$ .	<b>Count up &amp; down</b> in tenths; recognise that tenths arise from dividing an object into 10 equal parts & in dividing 1-digit numbers or quantities by 10.	<b>Count up &amp; down</b> in hundredths; recognise that hundredths arise when dividing an object by a hundred & dividing tenths by ten.	<b>Recognise &amp; use thousandths</b> & relate then to tenths, hundredths & decimal equivalents.	
					<b>Recognise mixed numbers &amp; improper fractions</b> & convert from one form to the other & write mathematical statements.	
			<b>Compare &amp; order</b> unit fractions, & fractions with the same denominators.		<b>Compare &amp; order</b> fractions whose denominators are all multiples of the same number.	<b>Compare &amp; order fractions</b> , including fractions $> 1$ .  Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
			<b>Recognise, find &amp; write</b> fractions or a discrete set of objects: unit fractions & non-unit fractions with small denominators			
			<b>Recognise &amp; use</b> fractions as numbers: unit fractions & non-unit fractions with small denominators.			
			<b>Recognise &amp; show</b> , using diagrams, equivalent fractions with small denominators.			

			<b>Add &amp; subtract fractions</b> with the same denominator within one whole (e.g. $5/7 + 1/7 = 6/7$ )	<b>Add &amp; subtract fractions</b> with the same denominator.	<b>Add &amp; subtract fractions</b> with the same denominator & multiples of the same number.	<b>Add &amp; subtract fractions</b> with different denominators & mixed numbers, using the concept of equivalent fractions.
					<b>Multiply</b> proper fractions & mixed numbers by whole numbers, supported by materials & diagrams.	<b>Multiply</b> simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$ )
						<b>Multiply</b> 1-digit numbers with up to two decimal places by whole numbers.
						<b>Divide</b> proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$ ).  Use written division methods in cases where the answer has up to two decimal places.
				<b>Round decimals</b> with one decimal place to the nearest whole number.	<b>Round decimals</b> with two decimal places to the nearest whole number and to one decimal place.	
				<b>Compare numbers</b> with the same number of decimal places up to <b>two decimal places</b> .	Read, write, order and <b>compare numbers</b> with up to <b>three decimal places</b> .	
					Recognise the <b>per cent symbol</b> (%) & understand that per cent relates to 'number or parts per hundred', and write percentages as a fraction with denominator hundred, and as a decimal fraction.	
						Recall & use <b>equivalences</b> between simple fractions, decimals & percentages, including in different contexts.
					Solve problems which require knowing <b>percentage &amp; decimal equivalents</b> of $1/2$ , $1/4$ , $1/5$ , $2/5$ , $4/5$ and those with a denominator of a multiple of 10 or 25.	Solve problems involving the <b>calculation of percentages</b> of whole numbers or measures such as 15% of 360 and the use of percentages for comparison.*
			<b>Solve problems</b> that involve all of the above.	<b>Solve problems</b> involving increasingly harder fractions to calculate quantities, & fractions to divide quantities, including non-unit fractions where the answer is a whole number.  Solve simple measure & money problems involving fractions & decimals to two decimal places.	<b>Solve problems</b> involving number up to three decimal places.	<b>Solve problems</b> which require answers to be rounded to specified degrees of accuracy.



Ratio and proportion						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
						Solve problems involving the <b>relative sizes</b> of two quantities where missing values can be found by using integer multiplication & division facts.
						Solve problems involving the <b>calculation of percentages</b> of whole numbers or measures 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 <b>unequal sharing &amp; grouping</b> using knowledge of fractions & multiples.

Algebra						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
						Express missing number problems algebraically.
						Use simple formulae
						Generate & describe linear number sequences.
						Find pairs of numbers that satisfy an equation with two unknowns.
						Enumerate all possibilities of combinations of two variables.

Measurement						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
<p>GENERAL</p> <p>Use everyday language to talk about size, weight, capacity, position, distance, time &amp; money to compare quantities and objects and solve problems. ELG</p>	<p>Compare, describe &amp; solve practical problems for:</p> <ul style="list-style-type: none"> <li>- Lengths &amp; heights</li> <li>- Mass/weight</li> <li>- Capacity &amp; volume</li> <li>- Time</li> </ul> <p>Measure &amp; begin to record the following:</p> <ul style="list-style-type: none"> <li>- Length &amp; heights</li> <li>- Mass/weight</li> <li>- Capacity &amp; volume</li> <li>- Time (hrs, mins, secs)</li> </ul>	<p>Choose and use appropriate standard units to estimate and measure:</p> <ul style="list-style-type: none"> <li>- length/height in any direction (m/cm)</li> <li>- mass (kg/g)</li> <li>- temperature (<math>^{\circ}\text{C}</math>)</li> <li>- capacity (l/ml)</li> </ul> <p>to the nearest appropriate unit, using rulers, scales, thermometers &amp; measuring vessels.</p> <p>Compare &amp; order lengths, mass, volume/capacity &amp; record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math>.</p>	<p>Measure, compare, add &amp; subtract:</p> <ul style="list-style-type: none"> <li>- lengths (m/cm/mm)</li> <li>- mass (kg/g)</li> <li>- volume/capacity (l/ml)</li> </ul>	<p>Convert between different units of measure (e.g. km to m; hr to min)</p> <p>Estimate, compare &amp; calculate different measures.</p>	<p>Convert between different units of metric measure (e.g. km/m; cm/m; cm/mm; g/kg; l/ml).</p> <p>Understand &amp; use approximate equivalences between metric units &amp; common imperial units such as inches, pounds &amp; pints.</p> <p>Use all four operations to solve problems involving measure using decimal notation, including scaling.</p> <p>Estimate volume (e.g. using <math>1\text{ cm}^3</math> blocks to build cubes &amp; cuboids) &amp; capacity (e.g. using water).</p>	<p>Solve problems involving the calculation &amp; conversion of units of measure, using decimal notation to three decimal places where appropriate.</p> <p>Use, read, write &amp; convert between standard units, converting measurements of length, mass, volume &amp; time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to three decimal places.</p> <p>Calculate, estimate &amp; compare volume of cubes &amp; cuboids using standard units, incl <math>\text{cm}^3</math> and <math>\text{m}^3</math>, and extending to other units such as <math>\text{mm}^3</math> and <math>\text{km}^3</math>.</p> <p>Convert between miles &amp; km.</p> <p>Recognise when it is possible to use the formulae for area &amp; volume of shapes.</p>
PERIMETER			Measure the <b>perimeter</b> of simple 2D shapes.	Measure & calculate the <b>perimeter</b> of a rectilinear figure (incl squares) in cm & m.	Measure & calculate the <b>perimeter</b> of composite rectilinear shapes in cm & m.	Recognise that shapes with the same areas can have different <b>perimeters</b> & vice versa.
AREA				Find the <b>area</b> of rectilinear shapes by counting squares.	Calculate & compare the <b>area</b> of rectangles (including squares, & including using standard units, square centimetres ( $\text{cm}^2$ ) and square metres ( $\text{m}^2$ ) & estimate the area of irregular shapes.	Calculate the <b>area</b> of parallelograms & triangles.
						Recognise when it is possible to use the formulae for <b>area</b> & volume of shapes.



MONEY	<p>Recognise &amp; know the value of different <b>denominations</b> or coins &amp; notes.</p>	<p>Recognise &amp; use symbols for <b>pounds (£)</b> and <b>pence (p)</b>; combine amounts to make a particular value.</p> <p>Find different combinations of coins that equal the same amounts of money.</p> <p>Solve simple problems in a practical context involving addition &amp; subtraction of money of the same unit, incl giving change.</p>	<p><b>Add &amp; subtract amounts</b> of money to give change, using both £ and p in practical contexts.</p>	<p>Estimate, compare &amp; <b>calculate</b> different measures, including money in pounds &amp; pence.</p>	
TIME	<p>Sequence events in <b>chronological order</b> using language (e.g. before, after, next, first, today, yesterday, tomorrow, morning, afternoon, evening).</p> <p>Recognise &amp; use <b>language</b> relating to dates, incl days of the week, weeks, months, years.</p> <p><b>Tell the time to the hour &amp; half past the hour</b> &amp; draw the hands on a clock face to show these times.</p>	<p>Compare &amp; <b>sequence</b> intervals of time.</p> <p>Tell &amp; write the time to <b>five minutes</b>, incl <b>quarter past/to</b> the hour &amp; draw the hands on a clock face to show these times.</p>	<p>Tell &amp; write the time from an analogue clock, incl using <b>Roman numerals</b> from I to XII, &amp; <b>12-hour &amp; 24-hour</b> clocks.</p> <p>Estimate &amp; read <b>time with increasing accuracy to the nearest minute</b>; record &amp; compare time in terms of secs, mins, hrs; use vocabulary such as o'clock, am/pm, morning, afternoon, noon &amp; midnight.</p> <p>Know the numbers of <b>seconds in a minute</b> &amp; the number of <b>days each month, year &amp; leap year</b>.</p> <p><b>Compare durations</b> of events, for example to calculate time taken by particular events or tasks.</p>	<p><b>Read, write &amp; convert time</b> between analogue &amp; digital 12- &amp; 24-hour clocks.</p> <p>Solve problems involving <b>converting</b> from hours to minutes; minutes to seconds; years to months; weeks to days.</p>	<p>Solve problems involving <b>converting</b> between units of time.</p>

Geometry: properties of shapes						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
Explore the characteristics of everyday objects and shapes and use mathematical language to describe them. ELG	Recognise & name <b>common 2D &amp; 3D shapes</b> , including: <ul style="list-style-type: none"> <li>- 2D, e.g. rectangles (including squares) circles, triangles</li> <li>- 3D, e.g. cuboids (including cubes), pyramids, spheres.</li> </ul>	Identify & describe the <b>properties of 2D shapes</b> , incl the number of sides & symmetry in a vertical line.  Identify & describe the <b>properties of 3D shapes</b> , incl the number of edges, vertices & faces.  Identify <b>2D shapes on the surface of 3D shapes</b> .  <b>Compare &amp; sort</b> common 2D & 3D shapes & everyday objects.	<b>Draw 2D shapes</b> & make 3D shapes using modelling materials; recognise 3D shapes in different orientations; & describe them.	<b>Compare &amp; classify</b> geometric shapes, incl quadrilaterals and triangles, based on their properties & sizes.  Identify lines of <b>symmetry</b> in 2D shapes presented in different orientations.  Complete a simple <b>symmetric figure</b> with respect to a specific line of symmetry.	<b>Identify 3D shapes</b> , including cubes & cuboids, from 2D representations.  Use the <b>properties of rectangles</b> to deduce related facts & find missing lengths & angles.  Distinguish between <b>regular &amp; irregular polygons</b> based on reasoning about equal sides & angles.	<b>Draw 2D shapes</b> using given dimensions & angles.  <b>Recognise, describe &amp; build simple 3D shapes</b> , incl making nets.  <b>Compare &amp; classify</b> geometric shapes based on their properties & sizes & find unknown angles in any triangles, quadrilaterals, & regular polygons.
			Recognise <b>angles</b> are a property of shape or a description of a turn.  Identify right <b>angles</b> , recognise that two right angles make a half-turn, three make three quarters & four a complete turn; identify whether angles are greater than or less than a right angle.	Identify acute & obtuse <b>angles</b> & compare & order angles up to two right angles by size.	Know <b>angles</b> are measures in degrees; estimate & compare acute, obtuse & reflex angles.  Identify: <ul style="list-style-type: none"> <li>- Angles at a point on a straight line &amp; <math>\frac{1}{2}</math> a turn (total <math>180^\circ</math>)</li> <li>- Angles at a point &amp; one whole turn (total <math>360^\circ</math>)</li> <li>- Other multiples of <math>90^\circ</math></li> </ul> Draw given angles, & measure them in degrees.	Recognise <b>angles</b> where they meet at a point, are on a straight line, or are vertically opposite, & find missing angles.
			Identify <b>horizontal and vertical lines and pairs of perpendicular &amp; parallel lines</b> .			
						Illustrate & name parts of <b>circles</b> , including radius, diameter & circumference & know that the diameter is twice the radius.

### Geometry: position, direction, motion

Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
Recognise, create & describe patterns. ELG		<b>Order &amp; arrange</b> combinations of mathematical objects in patterns and sequences.				
	Describe <b>position, directions &amp; movement</b> , including half, quarter and three-quarter turns.	Use mathematical vocabulary to describe <b>position, direction &amp; movement</b> , including movement in a straight line and distinguishing between rotation as a turn & in terms of right angles for quarter, half and three-quarter turns (clockwise & anti-clockwise).				
				Describe positions on a 2D grid as <b>coordinates in the first quadrant</b> .		Describe positions on the full coordinate grid ( <b>all four quadrants</b> ).
				Describe movements between positions as <b>translations</b> of a given unit to the left/right and up/down.	Identify, describe & represent the position of a shape following a <b>reflection or translation</b> , using the appropriate language, & know that the shape has not changed.	<b>Draw &amp; translate simple shapes</b> on the coordinate plane, & reflect them in the axes.
				<b>Plot specified points</b> & draw sides to complete a given polygon.		

### Statistics

Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
		Interpret & construct simple: - <b>pictograms</b> - <b>tally charts</b> - <b>block diagrams</b> - <b>simple tables</b>	Interpret & present data using: - <b>bar charts</b> - <b>pictograms</b> - <b>tables</b>	Interpret & present discrete data using appropriate graphical methods, incl: - <b>bar charts</b> - <b>time graphs</b>	Complete, read & interpret information in: - <b>tables, incl timetables</b>	Interpret & construct: - <b>pie charts</b> - <b>line graphs</b> and use to solve problems.
		<b>Ask &amp; answer</b> simple questions by counting the number of objects in each category & sorting the categories by quantity.  <b>Ask &amp; answer</b> questions about totalling and compare categorical data.	Solve <b>one-step &amp; two-step questions</b> such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts & pictograms & tables.	Solve <b>comparison, sum &amp; difference problems</b> using information presented in bar charts, pictograms, tables & other graphs.	Solve <b>comparison, sum &amp; difference problems</b> using information presented in a line graph.	Calculate & interpret the <b>mean</b> as an average.