



Measurement

COMPARING AND ESTIMATING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know how to 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>I know how to compare and order lengths, mass, volume/capacity and record the results using >, < and =</p>		<p>I know how to estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)</p>	<p>I know how to 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 (also included in measuring)</p>	<p>I know how to calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre³ cubed (cm³) and cubic metres (m³), and extending to other³ units such as mm³ and km³.</p>
				<p>estimate volume (e.g. using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g. using water)</p>	
<p>I know how to sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]</p>	<p>I know how to compare and sequence intervals of time</p>	<p>I know how to compare durations of events, for example to calculate the time taken by particular events or tasks</p>			
		<p>I know how to 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>			



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MEASURING and CALCULATING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know how to measure and begin to record the following:</p> <ul style="list-style-type: none"> * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) 	<p>I know the 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</p>	<p>I know how to measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p>	<p>I know how to estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing)</p>	<p>I know how to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling and using all four operations to</p>	<p>I know how to 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)</p>
		<p>I know how to measure the perimeter of simple 2-D shapes</p>	<p>I know how to measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p>	<p>I know how to measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p>	<p>I know that shapes with the same areas can have different perimeters and vice versa</p>



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MEASURING and CALCULATING					
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I know the value of different denominations of coins and notes	I know the symbols for pounds (£) and pence (p) ; combine amounts to make a particular value	I know how to add and subtract amounts of money to give change, using both £ and p in practical contexts			
	I know how to find different combinations of coins that equal the same amounts of money				
	I know how to solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change				
			I know how to find the area of rectilinear shapes by counting squares	I know how to calculate and compare the area of squares and rectangles including using standard units, square centimetres ₂ (cm ²) and square metres (m ²) and estimate the area of irregular shapes <i>recognise and use square numbers and cube numbers₂, and the notation for squared () and cubed ()</i> (copied from Multiplication and Division)	I know how to calculate the area of parallelograms and triangles
					I know how to 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].
					recognise when it is possible to use formulae for area and volume of shapes



Measurement

TELLING THE TIME

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I know how to tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	I know how to 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.	I know how to tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	I know how to read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in <i>Converting</i>)		
I know how the language relating to dates, including days of the week, weeks, months and years	I know the number of minutes in an hour and the number of hours in a day. (appears also in <i>Converting</i>)	I know how to 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 <i>Comparing and Estimating</i>)			
			I know how to solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in <i>Converting</i>)	I know how to solve problems involving converting between units of time	



Measurement

CONVERTING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	I know the number of seconds in a minute and the number of days in each month, year and leap year	I know how to convert between different units of measure (e.g. kilometre to metre; hour to minute)	I know how to convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	I know how to 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
			I know how to read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	I know how to solve problems involving converting between units of time	I know how to 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)
			I know how to solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	I know how to use equivalences between metric units and common imperial units such as inches, pounds and pints	I know how to convert between miles and kilometres