

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>Spring 4 & 5 Summer 6</p>	<p>compare and order lengths, mass, volume/capacity and record the results using >, < and =</p> <p>Spring 3 & 4</p>		<p>estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)</p> <p>Summer 2</p>	<p>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 (also included in measuring)</p> <p>Spring 4 Summer 6</p> <p>estimate volume (e.g. using 1 cm^3 blocks to build cubes and cuboids) and capacity (e.g. using water)</p> <p>Spring 4 Summer 6</p>	<p>calculate, estimate and compare volume of cubes 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.</p> <p>Spring 5</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>Summer 6</p>	<p>compare and sequence intervals of time</p> <p>Summer 2</p>	<p>compare durations of events, for example to calculate the time taken by particular events or tasks</p> <p>Summer 3</p>			
		<p>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> <p>Summer 2</p>			

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

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MEASURING and CALCULATING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>recognise and know the value of different denominations of coins and notes <i>Summer 5</i></p>	<p>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value <i>Spring 1</i></p> <p>find different combinations of coins that equal the same amounts of money <i>Spring 1</i></p> <p>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change <i>Spring 1</i></p>	<p>add and subtract amounts of money to give change, using both £ and p in practical contexts <i>Summer 2</i></p>			
			<p>find the area of rectilinear shapes by counting squares <i>Autumn 3</i> <i>Spring 2</i></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 <i>Autumn 5</i> <i>Summer 5</i> <i>recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</i> (copied from Multiplication and Division)</p>	<p>calculate the area of parallelograms and triangles <i>Spring 5</i></p> <p>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 [e.g. mm³ and km³]. <i>Spring 5</i></p> <p>recognise when it is possible to use formulae for area and volume of shapes <i>Spring 5</i></p>

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

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