

Measurement (inc Money and Time)

DESCRIBE, MEASURE, COMPARE AND SOLVE

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Although the ELG does not make specific reference to measure, the children will be learning to:</p> <ul style="list-style-type: none"> • (3-4) Make comparisons between objects relating to size, length, weight and capacity. • Compare length, weight and capacity. • (3-4) Begin to describe a sequence of events, real or fictional, using words such as 'first' then'..... • Stories, role play scenarios and adult led activities such as cooking will drive many of these learning opportunities. 	<ul style="list-style-type: none"> • To compare, describe and solve practical problems for: lengths and heights, mass/weight, capacity and volume, time. • To measure and begin to record the following: lengths and heights, mass/weight, capacity and volume, time. • <i>To move from using and comparing different types of quantities and measures using non-standard units, including discrete (for example, counting) and continuous (for example, liquid) measurement, to using manageable common standard units using measuring tools, such as a ruler, weighing scales and containers.</i> 	<ul style="list-style-type: none"> • To choose and use appropriate standard units <i>with increasing accuracy using their knowledge of the number system</i> 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. • <i>To use the appropriate language and record using standard abbreviations.</i> • To compare and order lengths, mass, volume/capacity and record the results using >, < and =. • <i>To compare measures including simple multiples such as 'half as high'; 'twice as wide'.</i> 	<ul style="list-style-type: none"> • To measure <i>using the appropriate tools and units</i>, compare (<i>including simple scaling by integers</i>) add and subtract <i>using mixed units</i>: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). 	<ul style="list-style-type: none"> • To estimate, compare and calculate different measures, including money in pounds and pence. 	<ul style="list-style-type: none"> • To use all four operations to solve problems involving measure using decimal notation, including <i>scaling and conversions</i>. 	<ul style="list-style-type: none"> • <i>To use a number line, to add and subtract positive and negative integers for measures such as temperature.</i> • To solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.

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CONVERTING UNITS OF MEASURE

				<ul style="list-style-type: none"> • To use multiplication to convert from larger to smaller units. • To convert between different units of measure and build on their understanding of place value and decimal notation to record metric measures, including money. 	<ul style="list-style-type: none"> • To use the knowledge of place value and multiplication and division to convert between standard units. • To convert between different units of metric measure. • To understand and use approximate equivalences between metric units and common imperial units. 	<ul style="list-style-type: none"> • 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. • To convert between miles and kilometres. • To know approximate conversions to tell if an answer is sensible.
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PERIMETER, AREA AND VOLUME

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			<ul style="list-style-type: none"> • To measure the perimeter of simple 2D shapes. • Understanding capacity and volume • Measuring the volume of liquids using litres and millilitres. • Estimate then measure mass and volume and record in a table 	<ul style="list-style-type: none"> • To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. 	<ul style="list-style-type: none"> • To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres including using the relations of perimeter. Note: Missing measures questions can be expressed algebraically. • To find the area of rectilinear shapes by 	<ul style="list-style-type: none"> • To recognise that shapes with the same areas can have different perimeters and vice versa. • To recognise when it is possible to use formulae for area and volume of shapes. • To relate the area of rectangles to parallelograms and triangles and calculate

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					<p>counting squares.</p> <ul style="list-style-type: none"> • To relate area to arrays and multiplication. • To calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2), use the area of rectangles to find unknown lengths and estimate the area of irregular shapes. Note: Missing measures questions can be expressed algebraically. • 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 (for example, mm^3 and km^3). • To calculate the area from scale drawings using given measurements. • To estimate volume. 	<p>their areas, understanding and using the formulae (in words or symbols) to do this.</p> <ul style="list-style-type: none"> • To calculate the area of parallelograms and triangles.
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MONEY						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"> That we exchange coins and notes for wanted items. 	<ul style="list-style-type: none"> recognise and know the value of different denominations of coins and notes 	<ul style="list-style-type: none"> recognise and use symbols for pounds (£) & 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 & subtraction of money of the same unit, including giving change 	<ul style="list-style-type: none"> add and subtract amounts of money to give change, using both £ and p in practical contexts 	<p>Estimate and compare and calculate different measures, inv money in pounds and pence.</p>	<p>Use all four operations to solve problems involving measure [for example, money] using decimal notation, including scaling.</p>	<p>solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p>

TELLING TIME						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"> Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then...' That we name parts of the day eg morning, night time. Children begin to recognise routines of the day. 	<ul style="list-style-type: none"> To sequence events in chronological order using language. To recognise and use language relating to dates, including days of the week, weeks, months and years. tell the time to the hour and half past the hour and draw the hands on a clock face 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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. To begin to use digital 12-hour clocks and record their times in preparation for using digital 24-hour clocks in year 4. To estimate and read 	<ul style="list-style-type: none"> To read, write and convert time between analogue and digital 12- and 24-hour clocks. To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 	<ul style="list-style-type: none"> To solve problems involving converting between units of time. 	<ul style="list-style-type: none"> To solve problems involving converting between units of time.

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	<p>to show these times - Measure time (hours, minutes, seconds)</p>	<ul style="list-style-type: none"> • 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. 	<p>time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours.</p> <ul style="list-style-type: none"> • To use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. • To know the number of seconds in a minute and the number of days in each month, year and leap year. • To compare durations of events. 			
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