

Measurement (Measure, Time, Money, Perimeter, Area and Volume) Progression

Year group	Objectives
EYFS	<p><u>Early Learning Goals</u></p> <ul style="list-style-type: none"> Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. <p><u>3 and 4-year-olds will be learning to:</u></p> <ul style="list-style-type: none"> Make comparisons between objects relating to size, length, weight and capacity. <p><u>Children in reception will be learning to:</u></p> <ul style="list-style-type: none"> Compare length, weight and capacity.
Year 1	<p><u>Measurement</u></p> <ul style="list-style-type: none"> compare, describe and solve practical problems for: <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] sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] 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) <p><u>Money</u></p> <ul style="list-style-type: none"> recognise and know the value of different denominations of coins and notes <p><u>Time</u></p> <ul style="list-style-type: none"> recognise and know the value of different denominations of coins and notes
Year 2	<p><u>Measurement</u></p> <ul style="list-style-type: none"> compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ compare and sequence intervals of time choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g);

	<p>temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p> <p><u>Money</u></p> <ul style="list-style-type: none"> • recognise and use symbols for pounds (£) and 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 and subtraction of money of the same unit, including giving change <p><u>Time</u></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
Year 3	<p><u>Measurement</u></p> <ul style="list-style-type: none"> • compare durations of events, for example to calculate the time taken by particular events or tasks • 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 • measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) <p><u>Money</u></p> <ul style="list-style-type: none"> • add and subtract amounts of money to give change, using both £ and p in practical contexts <p><u>Time</u></p> <ul style="list-style-type: none"> • tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • 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><u>Perimeter, Area and Volume</u></p> <ul style="list-style-type: none"> • measure the perimeter of simple 2-D shapes
Year 4	<p><u>Measurement</u></p> <ul style="list-style-type: none"> • convert between different units of measure [for example, kilometre to metre; hour to minute] • estimate, compare and calculate different measures <p><u>Money</u></p> <ul style="list-style-type: none"> • estimate, compare and calculate different measures, including money in pounds and pence <p><u>Time</u></p> <ul style="list-style-type: none"> • read, write and convert time between analogue and digital 12- and 24-hour clocks • solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

	<p><u>Perimeter, Area and Volume</u></p> <ul style="list-style-type: none"> • measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • find the area of rectilinear shapes by counting squares
Year 5	<p><u>Measurement</u></p> <ul style="list-style-type: none"> • convert between different units of metric measure • understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling <p><u>Money</u></p> <ul style="list-style-type: none"> • use all four operations to solve problems involving measure [for example, money] <p><u>Time</u></p> <ul style="list-style-type: none"> • solve problems involving converting between units of time <p><u>Perimeter, Area and Volume</u></p> <ul style="list-style-type: none"> • measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes • estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water]
Year 6	<p><u>Measurement</u></p> <ul style="list-style-type: none"> • solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. where appropriate • 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 3 d.p. • convert between miles and kilometers <p><u>Time</u></p> <ul style="list-style-type: none"> • use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa <p><u>Perimeter, Area and Volume</u></p> <ul style="list-style-type: none"> • recognise that shapes with the same areas can have different perimeters and vice versa • recognise when it is possible to use formulae for area and volume of shapes • calculate the area of parallelograms and triangles • 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