



# Progression in Mathematics: Measurement

|                                | Y1  | Y2   | Y3   | Y4   | Y5   | Y6  |
|--------------------------------|---|--|--|--|--|---|
| Measurement:<br>Using Measures | <ul style="list-style-type: none"> <li>Compare, describe and solve practical problems for:</li> <li>Lengths and heights</li> <li>Mass/weight</li> <li>Capacity and volume</li> <li>Time</li> <li>Measure and begin to record all of above.</li> </ul> | <ul style="list-style-type: none"> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (l/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</li> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</li> </ul> | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m, cm, mm); mass (kg/g); volume/capacity (l/ml)</li> </ul> | <ul style="list-style-type: none"> <li>Convert between different units of measure.</li> <li>Estimate, compare and calculate different measures.</li> </ul> | <ul style="list-style-type: none"> <li>Convert between different units of metric measure.</li> <li>Understand and use approximate equivalences between metric and common imperial units such as inches, pounds and pints.</li> <li>Use all four operations to solve problems involving measure using decimal notation, including scaling.</li> </ul> | <ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3dp where appropriate.</li> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit to a larger unit and vice versa, using decimal notation up to 3dp.</li> <li>Convert between miles and kilometres.</li> </ul> |
| Measurement:<br>Money          | <ul style="list-style-type: none"> <li>Recognise and know the value of different denominations of coins and notes.</li> </ul>   | <ul style="list-style-type: none"> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</li> <li>Find different combinations of coins that equal the same amounts of money.</li> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit; including giving change.</li> </ul>                       | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in context.</li> </ul>             | <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>                 | <ul style="list-style-type: none"> <li>Use all four operations to solve problems involving measure (inc. money)</li> </ul>   |   |



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|---|---|---|---|---|--|---|
| Measurement:<br>Time                          | <ul style="list-style-type: none"> <li>Sequence events in chronological order using the correct language.</li> <li>Recognise and use language relating to dates</li> <li>Tell the time to the hour and half past and draw hands on a clock face.</li> </ul> | <ul style="list-style-type: none"> <li>Compare and sequence intervals of time.</li> <li>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.</li> <li>Know the number of minutes in an hour and the number of hours in a day.</li> </ul> | <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including using Roman Numerals.</li> <li>Estimate and read time with increasing accuracy to the nearest minute; recording and comparing times including the correct use of time vocabulary.</li> <li>Know the number of seconds in a minute and days in each month.</li> </ul> | <ul style="list-style-type: none"> <li>Read, write and convert between analogue and digital clocks.</li> <li>Solve problems involving converting from hours to minutes and weeks to days etc.</li> </ul>          | <ul style="list-style-type: none"> <li>Solve problems involving converting between units of time.</li> </ul>   | <ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of time from a smaller unit to a larger unit, and vice versa.</li> </ul>  |
| Measurement:<br>Perimeter, Area and<br>Volume |   |   | <ul style="list-style-type: none"> <li>Measure the perimeter of simple 2D shapes</li> </ul>   | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m.</li> <li>Find the areas of rectilinear shapes by counting squares.</li> </ul> | <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of composite rectilinear shapes in cm and m.</li> <li>Calculate and compare the area of rectangles using standard units, square cm (cm<sup>2</sup>) and square m (m<sup>2</sup>) and estimate the area of irregular shapes.</li> <li>Estimate volume and capacity.</li> </ul> | <ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate the area of parallelograms and triangles.</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units including cm<sup>3</sup> and extending to other units.</li> </ul> |