**National Curriculum Subject: Mathematics**

**Skills Progression: Measure**

Note: Yellow highlighting for shape, space and measure links.

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|  | **Length** | **Capacity and Volume** | **Weight and Mass** | **Temperature** |
| **EYFS**  **40-60** | I can order two or three items by length or height. | I can order two items by weight or capacity. | I can order two items by weight or capacity. |  |
| **EYFS**  **ELG** | Children use everyday language to talk about **size, weight, capacity, position, distance**, time and money to compare quantities and objects and to solve problems. | | | |
| **1** | I can compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half].  I can measure and begin to record  lengths and heights. | I can compare, describe and solve practical problems for:  capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]  I can measure and begin to record the capacity and volume. | I can compare, describe and solve practical problems for:  mass/weight [for example, heavy/light, heavier than, lighter than]  I can measure and begin to record the mass/weight. |  |
| **2** | I can choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); to the nearest appropriate unit, using rulers.  I can compare and order lengths and record the results using >, < and = | I can choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit, using measuring vessels.    I can compare and order volume/capacity and record the results using >, < and = | I can choose and use appropriate standard units to estimate and measure mass (kg/g); to the nearest appropriate unit, using, scales.  I can compare and order mass, and record the results using >, < and = | I can choose and use appropriate standard units to estimate and measure temperature (°C); to the nearest appropriate unit, using thermometers. |
| **3** | I can measure, compare, add and subtract: lengths (m/cm/mm).  I can measure the perimeter of simple 2-D shapes. | I can measure, compare, add and subtract: volume/capacity (l/ml). | I can measure, compare, add and subtract: mass (kg/g). |  |
| **4** | I can convert between different units of measure [for example, kilometre to metre]  I can estimate, compare and calculate different measures.  I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.  I can find the area of rectilinear shapes by counting squares. | I can convert between different units of measure.  I can estimate, compare and calculate different measures. | I can convert between different units of measure.  I can estimate, compare and calculate different measures. |  |
| **5** | I can convert between different units of metric measure - kilometre and metre; centimetre and metre; centimetre and millimeter.  I can understand and use approximate equivalences between metric units and common imperial units such as inches.  I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.  I can 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.  I can use all four operations to solve problems involving measure/length using decimal notation, including scaling. | I can convert between different units of metric -measure litre and millilitre.  I can understand and use approximate equivalences between metric units and common imperial units e.g. pints.  I can use all four operations to solve problems involving volume using decimal notation, including scaling.  I can estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water] | I can convert between different units of metric measure - gram and kilogram.  I can understand and use approximate equivalences between metric units and common imperial units such as pounds.  I can use all four operations to solve problems involving mass, using decimal notation, including scaling. |  |
| **6** | I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.  I can use, read, write and convert between standard units, converting measurements of length from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.  I can recognise that shapes with the same areas can have different perimeters and vice versa.  I can recognise when it is possible to use formulae for area.  I can calculate the area of parallelograms and triangles.  I can convert miles to kilometres. | I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.  I can use, read, write and convert between standard units, converting measurements of volume from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.  I can recognise when it is possible to use formulae for volume of shapes.  I can 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 [for example, mm3 and km3]. | I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.  I can use, read, write and convert between standard units, converting measurements of mass, from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. |  |