**Measures - Measuring**

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| **Stage** | **CDM Ref.** | **Small Step** |
| 0 |  | I can understand and identify the concepts of big and small |
| I can understand and identify the concepts of bigger and smaller physically and pictorially |
| I can sort objects/pictures into big and small |
| I can identify biggest and smallest physically and pictorially |
| I can fill and empty containers in play |
| I can show/identify full and empty physically |
| I can show/ identify full and empty pictorially |
| I can show/identify nearly full and nearly empty physically and pictorially |
| I can identify hot/ cold physically |
| I can identify hot/ cold pictorially |
| 1 | 1.8 | Compare lengths using the language of longer than and shorter than |
| Order lengths |
| Measure length using non-standard units |
| Compare heights using the language of taller than and shorter than |
| Order heights |
| Measure heights using non-standard units |
| Measure lengths and heights using common standard units |
| 1.16 | Compare mass of objects, heavier /lighter than |
| Order objects by mass |
| Measure the mass of objects using non-standard units |
| Measure the mass of objects using standard units |
| Compare capacity of containers |
| Order capacities |
| Measure capacities using non-standard units |
| Measure capacities using standard units |
| 2 | 2.9 | Read scales in divisions of ones and twos, |
| Read scales in divisions of fives and tens |
| Measure the mass of objects (kg) |
| Measure the mass of objects (g) |
| Estimate the mass of objects |
| Compare the mass of objects using >, < and = |
| Order the mass of objects |
| Measure lengths (m) |
| Measure lengths (cm) |
| Estimate lengths |
| Compare lengths using >, < and = |
| Order lengths |
| Measure heights (cm) |
| Estimate heights |
| Compare heights using >, < and = |
| 2.14 | Measure capacity using litres |
| Measure capacity using millilitres |
| Estimate capacity using litres |
| Estimate capacity using millilitres |
| Compare capacity, > and < |
| Order capacities |
| Measure temperature |
| 3 | 3.13 | Use a ruler to measure lengths in millimetres |
| Order lengths |
| Add lengths |
| Subtract lengths |
| Find the perimeter of a 2-D shapes by measuring |
| Measure mass |
| Compare mass |
| Order mass |
| Add and subtract mass |
| Measure capacity |
| Compare capacity |
| Add and subtract capacities |
| Use scaling with measures |
| 4 | 4.14  Objectives 7-9 | Convert from litres to millilitres |
| Convert from kilograms to grams |
| Convert from kilometres to metres |
| 4.15 | Measure and calculate the perimeter of 2D shapes when dimensions are unknown |
| Calculate the perimeter of rectangles (including squares) |
| Calculate the perimeter of other rectilinear shapes when dimensions are known |
| Find the area of rectangles (including squares) by counting squares |
| Find the area of other rectilinear shapes by counting squares |
| 5 | 5.10 | Convert kilometres to metres using decimal notation |
| Convert metres to kilometres using decimal notation |
| Convert metres to centimetres using decimal notation |
| Convert centimetres to metres using decimal notation |
| Convert between centimetres and millimetres using decimal notation |
| Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units |
| Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated |
| Convert between kilograms and grams using decimal notation |
| Convert between litres and millilitres using decimal notation |
| Know approximate equivalences between metric and imperial units including pounds and pints |
| Know approximate equivalences between inches and centimetres |
| 5.12 | Make connections between arrays and calculating the area of rectangles |
| Calculate the area of rectangles (not squares) |
| Calculate the area of squares |
| Find an estimate for the area of shapes that are not rectangles |
| Find an estimate for the volume of a 3D shape |
| Estimate capacity |
| 6 | 6.12 | Convert between metric units from the smaller unit to the larger unit |
| Convert between metric units from the larger unit to the smaller unit |
| Convert between miles and km |
| 6.13 | Recognise that shapes with the same areas can have different perimeters and vice versa |
| Calculate the area of a parallelogram |
| Calculate the area of a triangle |
| Calculate the volume of cuboids, including cubes |
| Convert between different units of metric measure |
| Calculate the area of rectangles and triangles and volumes of cuboids |