# Reasoning and Problem Solving Step 2: Measure Length (m)

# National Curriculum Objectives:

Mathematics Year 2: (2M2) Choose and use appropriate standard units 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

## Differentiation:

Questions 1, 4 and 7 (Problem Solving)

**Developing** Using the given digit cards complete the measurements to give reasonable estimations. Includes lengths in whole metres and centimetres up to 100 (multiples of 10 only).

Expected Using the given digit cards complete the measurements to give reasonable estimations. Includes lengths as centimetres and mixed metres and centimetres e.g.1m and 32cm.

Greater Depth Using the given digit cards complete the measurements to give reasonable estimations. Includes metres and centimetres and > 100cm (614cm; 5m 114cm)

Questions 2, 5 and 8 (Reasoning)

Developing Explain if objects have been sorted into a chart correctly. Using objects that are obviously longer or shorter than a metre, i.e. house and a bird.

Expected Explain if objects have been sorted into a chart correctly. Using objects that are clearly longer or shorter than a metre, i.e. car and a chair.

Greater Depth Explain if objects have been sorted into a chart correctly. Using objects that are marginally longer or shorter than a metre, i.e. bike and a wheelbarrow.

Questions 3, 6 and 9 (Reasoning)

Developing Explain if a statement describing a measurement is correct or not. Scale divisions in whole metres.

Expected Explain if a statement describing a measurement is correct or not. Scale divisions in whole metres and 50 centimetres.

Greater Depth Explain if a statement describing a measurement is correct or not. Scale divisions in metres and centimetres and > 100cm (614cm; 5m 114cm)

More <u>Year 2 Length and Height</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



classroomsecrets.co.uk

Reasoning and Problem Solving – Measure Length (m) – Teaching Information



Reasoning and Problem Solving – Measure Length (m) – Year 2 Developing



Reasoning and Problem Solving – Measure Length (m) – Year 2 Expected



Reasoning and Problem Solving – Measure Length (m) – Year 2 Greater Depth

### <u>Reasoning and Problem Solving</u> <u>Measure Length (m)</u>

#### Developing

1a. Various possibilities, any reasonable answer acceptable, for example: bus 8m and 70cm; scooter 1m and 20cm
2a. The sweet should be measured in cm.
3a. No, Alfie has not aligned the snake's tail with the 0 on the scale.

### Expected

4a. Various possibilities, any reasonable answer acceptable, for example: car 3m and 95cm; bike 1m and 10cm
5a. The tree should be measured in m.
6a. No, Naseem has started to measure the snake at 50cm, not 0.

#### Greater Depth

7a. Various possibilities, any reasonable answer acceptable, for example: van
985cm; motorbike 1m and 23cm
8a. The monkey should be measured in cm.

9a. No, Awais has positioned the snake in the middle of the scale, not at 0.

### <u>Reasoning and Problem Solving</u> <u>Measure Length (m)</u>

#### Developing

1b. Various possibilities, any reasonable answer acceptable, for example: train 10m and 70cm; go-kart 2m and 10cm
2b. The lamp should be measured in m.
3b. No, Anna has positioned the snake in the middle of the scale, not at 0.

#### **Expected**

4b. Various possibilities, any reasonable answer acceptable, for example: coach 9m and 92cm; surfboard 1m and 10cm 5b. The cucumber should be measured in cm.

6b. No, Simon has not aligned the snake's tail with 0.

#### Greater Depth

7b. Various possibilities, any reasonable answer acceptable, for example: lorry 987cm; bike 1m and 45cm

8b. The wheelbarrow should be measured in m.

9b. No, Leila has not aligned the snake's tail with 0.



classroomsecrets.co.uk

Reasoning and Problem Solving – Measure Length (m) ANSWERS