Reasoning and Problem Solving Step 2: Measure Length (cm)

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 (Reasoning)

Developing Explain why an object is the odd one out. Measure objects using ruler; always starting at 0; all units shown on the ruler.

Expected Explain why an object is the odd one out. Measure objects using ruler; not always starting at 0; all units shown on the ruler.

Greater Depth Explain why an object is the odd one out. Measure objects using ruler; not aligned with 0; some increments missing.

Questions 2, 5 and 8 (Reasoning)

Developing Explain which child is correct when measuring an object. Measure objects using ruler; always starting at 0; all units shown on the ruler.

Expected Explain which child is correct when measuring an object. Measure objects using ruler; not always starting at 0; all units shown on the ruler.

Greater Depth Explain which child is correct when measuring an object. Measure objects using ruler; not aligned with 0; some increments missing.

Questions 3, 6 and 9 (Problem Solving)

Developing Find two possible measurements between two lengths. Measurements are smaller than 10cm.

Expected Find a range of possibilities between two lengths. Measurements are up to 15cm. Greater Depth Find a range of possibilities between two lengths. Using a clue to limit possibilities.

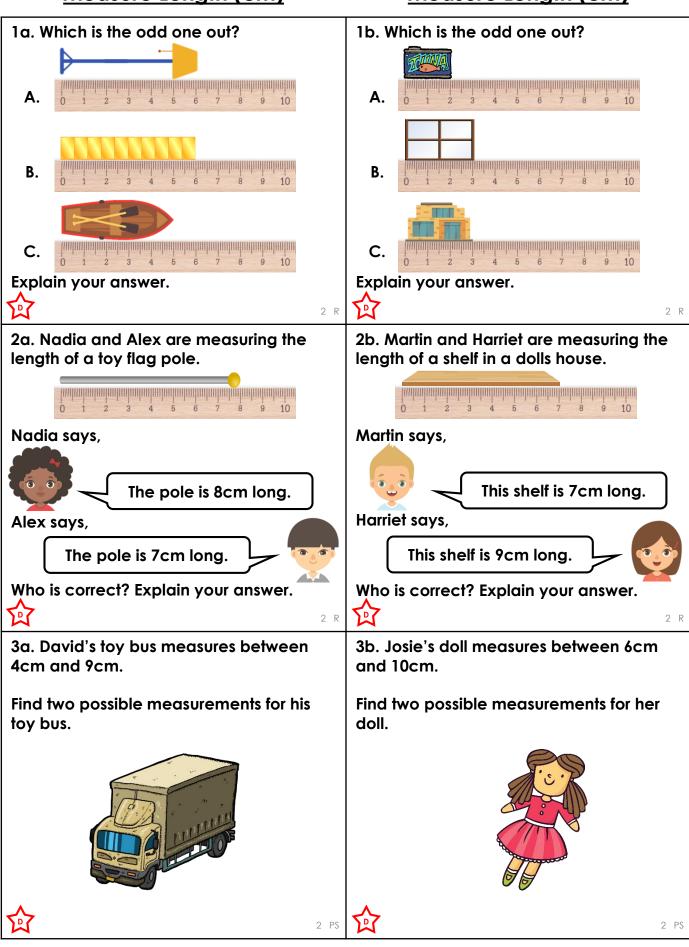
More Year 1 and Year 2 Length and Height resources.

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



Measure Length (cm)

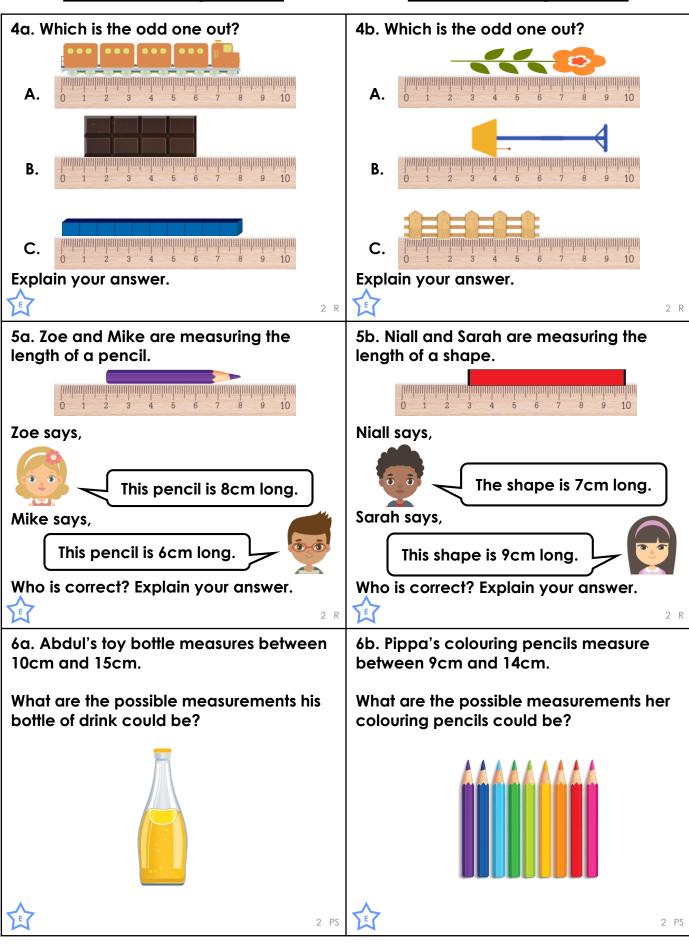
Measure Length (cm)





Measure Length (cm)

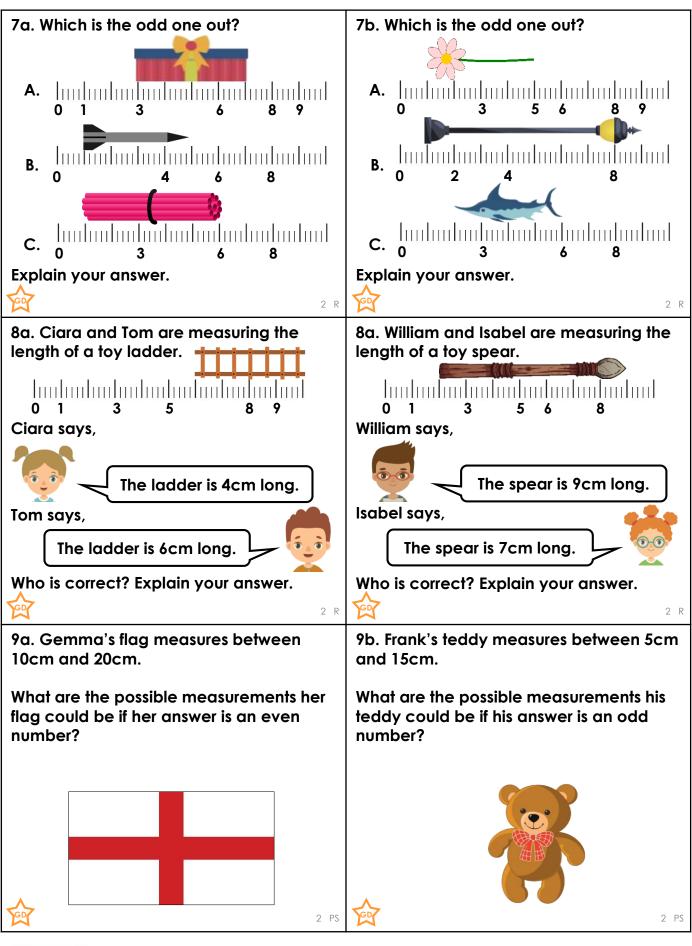
Measure Length (cm)





Measure Length (cm)

Measure Length (cm)





Reasoning and Problem Solving Measure Length (cm)

<u>Developing</u>

1a. C. It is 5cm long whereas the others are 6cm long.

2a. Nadia. She has accurately read the measurement shown by the ruler.

3a. Various possible answers, for example: 5cm, 6cm, 7cm or 8cm.

Expected

4a. B. It is 5cm long whereas the others are 8cm long.

5a. Mike. He has taken into account that the object is measured from 2cm and not 0cm.

6a. Various possible answers, for example: 11cm, 12cm, 13cm and 14cm.

Greater Depth

7a. C. It is 5cm long, whereas the others are 4cm long.

8a. Ciara. She has taken into account that the object is measured from 6cm and not 0cm.

9a. Various possible answers, for example: 12cm, 14cm, 16cm and 18cm.

Reasoning and Problem Solving Measure Length (cm)

<u>Developing</u>

1b. A. It is 2cm long whereas the others are 3cm long.

2b. Martin. He has accurately read the measurement shown by the ruler.

3b. Various possible answers, for example: 7cm, 8cm or 9cm.

Expected

4b. A. It is 7cm long, whereas the others are 6cm long.

5b. Niall. He has taken into account that the object is measured from 3cm and not 0cm.

6b. Various possible answers, for example: 10cm, 11cm, 12cm and 13cm.

Greater Depth

7b. B. It is 8cm long, whereas the others are 4cm long.

8b. Isabel. She has taken into account that the object is measured from 2cm and not 0cm.

9b. Various possible answers, for example: 7cm, 9cm, 11cm and 13cm.

