<u>Reasoning and Problem Solving</u> <u>Step 3: Measure Mass (kg)</u>

National Curriculum Objectives:

Mathematics Year 2: (2M1) <u>Compare and order lengths, mass, volume/capacity and</u> record the results using >, < and =

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 Find and correct the mistake. Scale uses increments of 10 only with all increments marked on the scale.

Expected Find and correct the mistake. Scale uses increments of 2, 5 and 10 with most increments marked on the scale.

Greater Depth Find and correct the mistake. Scale uses increments of 2, 5 and 10 and where some measurements fall in between and not all increments marked on the scale.

Questions 2, 5 and 8 (Problem Solving)

Developing Give the possible weight of the object using increments of 10 with all increments marked on the scale.

Expected Give the possible weight of the object using increments of 2, 5 and 10 with most increments marked on the scale.

Greater Depth Give the possible weight of the object using increments of 2, 5 and 10 and where some measurements fall in between and not all increments marked on the scale.

Questions 3, 6 and 9 (Reasoning)

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Developing Explain whether you agree or disagree with a statement made when working out the weight of an item on a scale using increments of 10 only with all increments marked on the scale.

Expected Explain whether you agree or disagree with a statement made when working out the weight of an item on a scale using increments of 2, 5 and 10 mostly marked on the scale.

Greater Depth Explain whether you agree or disagree with a statement made when working out the weight of an item on a scale using increments of 2, 5 and 10 and where some measurements fall in between and not all increments are marked on the scale.

More <u>Year 2 Mass, Capacity and Temperature</u> resources.

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Reasoning and Problem Solving – Measure Mass (kg) – Year 2 Developing





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Reasoning and Problem Solving – Measure Mass (kg) – Year 2 Greater Depth

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<u>Reasoning and Problem Solving</u> <u>Measure Mass (kg)</u>

Developing

1a. B should be 60kg2a. 30kg3a. She is incorrect because the scale shows 30kg.

Expected

4a. A should be 20kg, B should be 15kg 5a. Various answers, including: 4kg, 6kg, 8kg

6a. He is incorrect because half way between 10 and 20 is 15 not 11.

Greater Depth

7a. A should be 22kg, C should be 45kg
8a. Various answers, including: 20kg,
25kg, 30kg
9a. She is incorrect as the scale goes up in

increments of 5 not 1, so the correct weight is 25kg.

<u>Reasoning and Problem Solving</u> <u>Measure Mass (kg)</u>

Developing 1b. B should be 80kg 2b. 40kg 3b. He is correct because the arrow is pointing to 40kg.

Expected

4b. B should be 2kg, C should be 20kg
5b. Various answers, including: 10kg, 15kg
6b. She is incorrect because she has used the wrong units. The right unit are kg not g.

<u>Greater Depth</u>

7b. B should be 10kg, C should be 2kg
8b. Various answers, including: 24kg,
26kg, 28kg
9b. He is incorrect as the arrow is not yet pointing to 30kg. His correct weight is
25kg.



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Reasoning and Problem Solving – Measure Mass (kg) ANSWERS