Homework/Extension Step 1: Metric Measures

National Curriculum Objectives:

Mathematics Year 6: (6M5) <u>Use, read, write and convert between standard units,</u> converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places

Mathematics Year 6: (6M9) <u>Solve problems involving the calculation and conversion of</u> units of measure, using decimal notation up to three decimal places where appropriate

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Complete the sentences using the different units of measures provided. Use of whole numbers.

Expected Complete the sentences using the different units of measures provided. Use of whole numbers and some decimals and fractions.

Greater Depth Complete the sentences using the different units of measures provided. Use of whole numbers, decimals and fractions. Some square and cube numbers included.

Questions 2, 5 and 8 (Varied Fluency)

Developing Group the given statements into the correct columns. Use of whole numbers. Expected Group the given statements into the correct columns. Use of whole numbers and some decimals and fractions.

Greater Depth Group the given statements into the correct columns. Use of whole numbers, decimals and fractions. Some square and cube numbers included.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Agree or disagree with a statement. Use of whole numbers.

Expected Agree or disagree with a statement. Use of whole numbers and some decimals and fractions.

Greater Depth Agree or disagree with a statement. Use of whole numbers, decimals and fractions. Some square and cube numbers included.

More <u>Year 6 Converting Units</u> resources.

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Homework/Extension – Metric Measures – Teaching Information

Metric Measures



Homework/Extension - Metric Measures - Year 6 Developing

Metric Measures



Homework/Extension - Metric Measures - Year 6 Expected

Metric Measures



Homework/Extension – Metric Measures – Year 6 Greater Depth

Homework/Extension **Metric Measures**

Developing

1. A. 100mm; B. 600m; C. 2L

2. Mass – B; Distance – C; Length – A

3. Various answers, for example: Jasper is incorrect. The length of the wall will be more than 4m because it is double the height. Although it is possible to measure the length of the wall in mm and cm, it would take too long; measuring the wall in metres with a metre stick or a tape measure would be the most sensible choice.

Expected

4. A. 500m; B. 8.5cm; C. 2¹/₄ km 5. Volume – D; Distance – B, C and E; Length – A

6. Various answers, for example: Yuna is incorrect. The track is equal to 290m so she will be able to measure in m or km (which are both units to measure distance), but not kg as they are used to measure mass, not distance. If she ran around the track 6 times, the total distance would be 1,740m or 1.74km.

<u>Greater Depth</u>

7. A. 0.95L; B. 15.5m²; C. 66m³

8. Volume – B, D and E; Distance – C; Length – A

9. Various answers, for example:

Willow is incorrect. She has confused the capacity of the beaker with the volume of it; the capacity of the beaker is 200ml, whereas the volume of the beaker is 180ml. In addition, if she used 3 beakers with the same amount of water in each, she will use exactly 540ml of water, not more than 540ml.



