# Varied Fluency Step 2: Convert 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) Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

## Differentiation:

Developing Questions to support converting metric measures of length, mass and capacity. Using multiples of 5 with up to 1 decimal place (0.5).

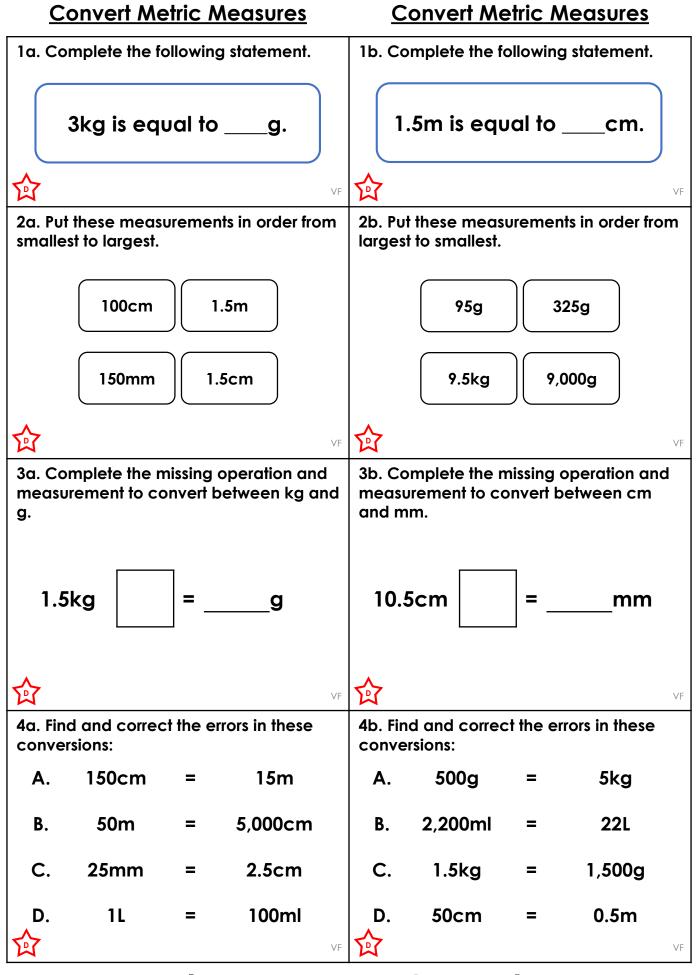
Expected Questions to support converting metric measures of length, mass and capacity. Using any number with up to 3 decimal places. Sometimes includes zero as a place holder.

Greater Depth Questions to support converting metric measures of length, mass and capacity. Using any number with up to 3 decimal places. Includes a number of zeros as place holders. Including fractions and percentages to convert measurements.

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

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

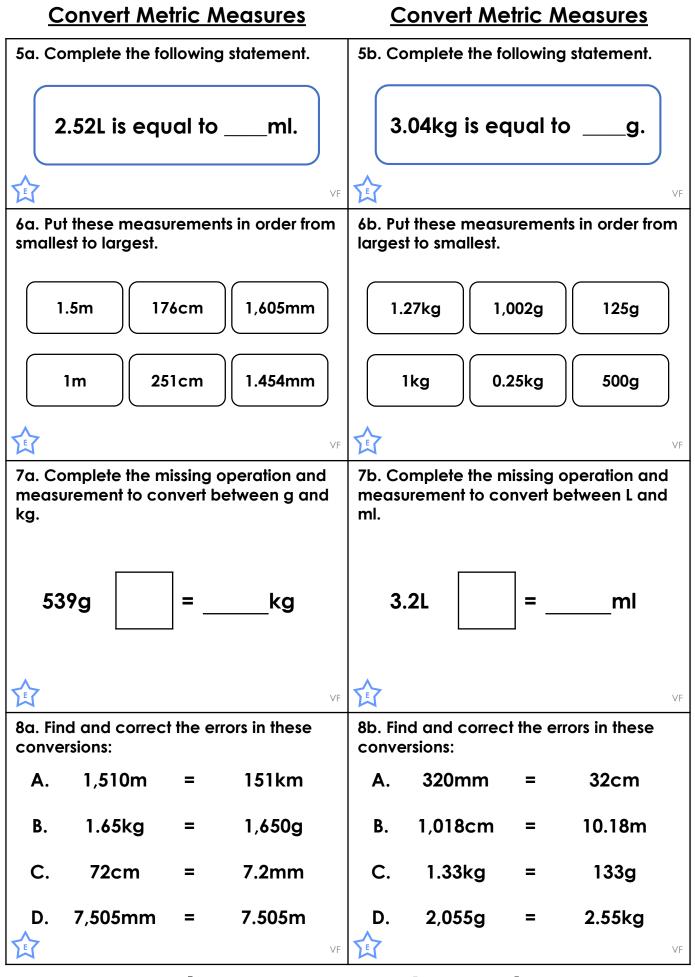




classroomsecrets.co.uk

CLASSROOM Secrets © Classroom Secrets Limited 2019

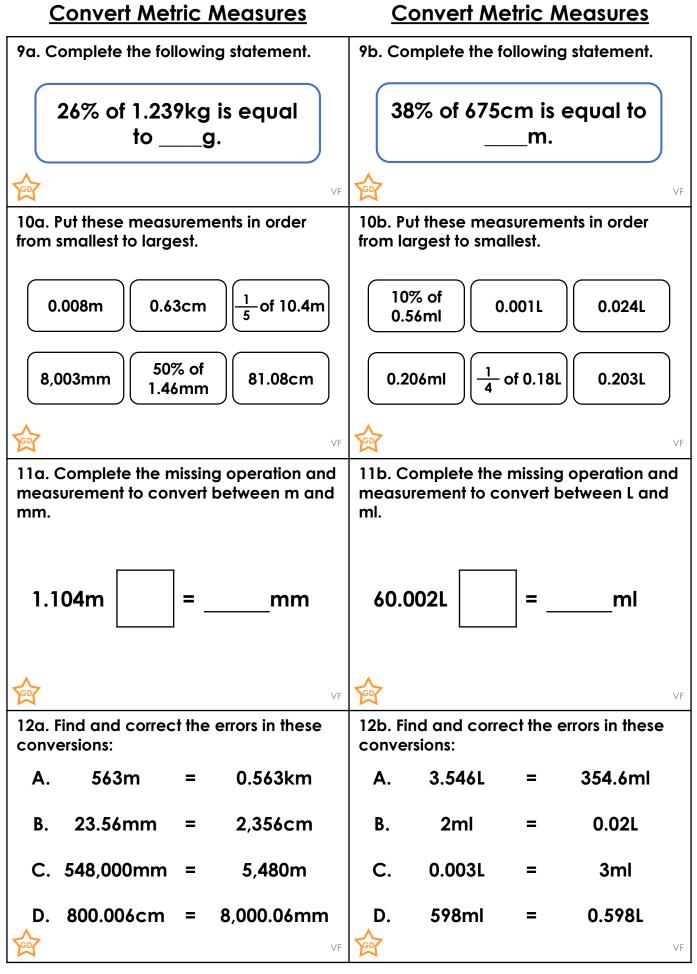
Varied Fluency - Convert Metric Measures - Year 6 Developing



classroomsecrets.co.uk

CLASSROOM Secrets © Classroom Secrets Limited 2019

Varied Fluency – Convert Metric Measures – Year 6 Expected



# classroomsecrets.co.uk

CLASSROOM Secrets © Classroom Secrets Limited 2019 Varied Fluency – Convert Metric Measures – Year 6 Greater Depth

## Varied Fluency Convert Metric Measures

#### <u>Developing</u>

1a. 3,000g 2a. 1.5cm; 150mm; 100cm, 1.5m 3a. x 1,000; 1,500 4a. A. 150cm = 1.5m; D. 1L = 1,000ml

#### **Expected**

5a. 2,520ml 6a. 1.454mm; 251cm; 1m; 1.5m; 1,605mm; 176cm 7a. ÷ 1,000; 0.539 8a. A. 1,550m = 1.51km; C. 72cm = 720mm

### Greater Depth

9a. 322.14g 10a. 50 % of 1.46mm (0.73mm); 0.63cm; 0.008m; 81.08cm;  $\frac{1}{5}$  of 10.4m (2.08m); 8,003mm 11a. x 1,000; 1,104 12a. B. 23.56mm = 2.356cm; C. 548,000mm = 548m

## Varied Fluency Convert Metric Measures

Developing 1b. 150cm 2b. 9.5kg; 9,000g; 325g; 95g 3b. x 10; 105 4b. A. 500g = 0.5kg; B. 2,200ml = 2.2L

Expected 5b. 3,040g 6b. 1.27kg; 1,002g; 1kg; 500g; 0.25kg; 125g 7b. x 1,000; 3,200 8b. C. 1.33kg = 1,330g; D. 2,055g = 2.055kg

<u>Greater Depth</u> 9b. 2.565m 10b. 0.203L;  $\frac{1}{4}$  of 0.18L (0.045L); 0.024L; 0.001L; 0.206ml; 10% of 0.56ml (0.056ml) 11b. x 1,000; 60,002 12b. A. 3.546L = 3,546ml; B. 2ml = 0.002L



© Classroom Secrets Limited 2019