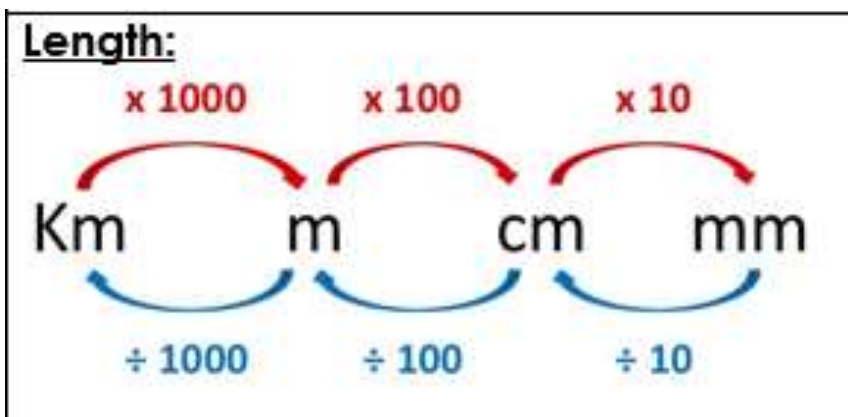**Year 6 Maths**
Developing activity

Lesson 3
LO: TBAT convert different lengths.
Success Criteria:

1. Read the question.
2. Read the measurement.
3. Use the conversion chart to help you convert the question to a different measurement.

Model

Now you try…

Length:

x 1000   x 100   x 10

Km   m   cm   mm

÷ 1000   ÷ 100   ÷ 10

Converting units of length

Write each length in kilometres.

1 3000 m
2 7500 m
3 11000 m
4 250 m
5 8700 m
6 4200 m
7 8760 m
8 5010 m
9 50 m
10 101 m

Write each distance in metres.

11 5 km
12 13 km
13 0·8 km
14 4·3 km
15 1·28 km
16 0·08 km
17 2·65 km
18 5·735 km
19 10·07 km
20 0·004 km

Year 6 Maths

Expected/ Greater depth activity

Lesson 3

LO: TBAT solve problems including converting between different lengths.

Task:

You are going apply your knowledge to solve several problems including converting between lengths.

Success Criteria:

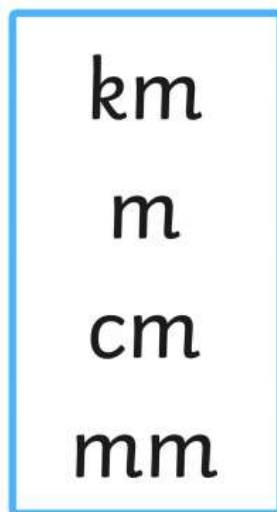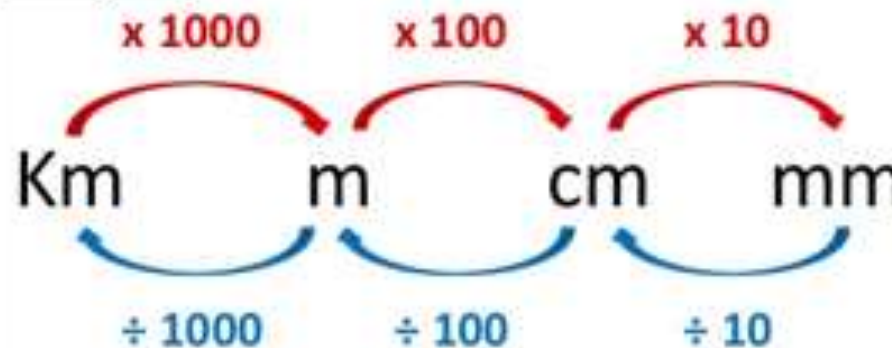| |
|---|
| 1. Read the question. |
| 2. Read the measurement. |
| 3. Use the conversion chart to help you convert the question to a different measurement. |
| 4. For some questions you may have to use one of the 4 operations (+, -, x or ÷) |

Recap:
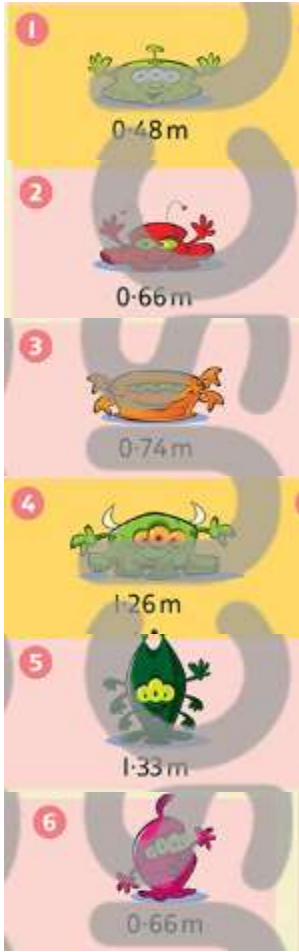
Year 6 Maths

Main activity

Complete at least 2 columns, more if you can!

Task 1	Task 2	Task 3	Task 4
Practice Write the lengths of the monsters in centimetres and millimetres. ① 0·48 m ② 0·66 m ③ 0·74 m ④ 1·26 m ⑤ 1·33 m ⑥ 0·66 m	**Arithmetic** 15 $319 \times 6 =$ 16 $4^3 =$ 17 $\frac{1}{4} = \frac{?}{24}$ 18 12% of 800 = 19 $98.4 \div 100 =$ 20 $\frac{6}{7}$ of 42 = 21 $\begin{array}{r} 284 \\ \times\ \underline{47} \end{array}$	**Problem Solving** **Task 1** Circle the approximate measurement. The length of a banana is about … **2 cm 20 cm 2 mm 2 m 20 m** The mass of an apple is about … **2 g 20 kg 200 kg 200 g 2 kg** A glass of fruit juice is about … **2 ml 2 l 20 ml 200 ml 20 l** **Task 2** The International Space Station orbits the Earth at a height of 250 miles. What is the height of the International Space Station in **kilometres?** Use 8 kilometres equals 5 miles. **Task 3** 140 cm Not actual size A stack of 20 identical boxes is 140 cm tall. Stefan takes **three** boxes off the top. How tall is the stack now?	**Reasoning** **Task 1** Ron's dog is about $\frac{1}{4}$ of the height of the door. Ron is three times the height of his dog. Estimate the height of Ron and his dog. **Task 2** Teddy thinks his chew bar is 13.2 cm long. Do you agree? Explain why. CHEW **Task 3** Jack, Alex and Amir jumped a total of 12.69 m in a long jump competition. Alex jumped exactly 200 cm further than Jack. Amir jumped exactly 2,000 mm further than Alex. What distance did they all jump? Give your answers in metres.