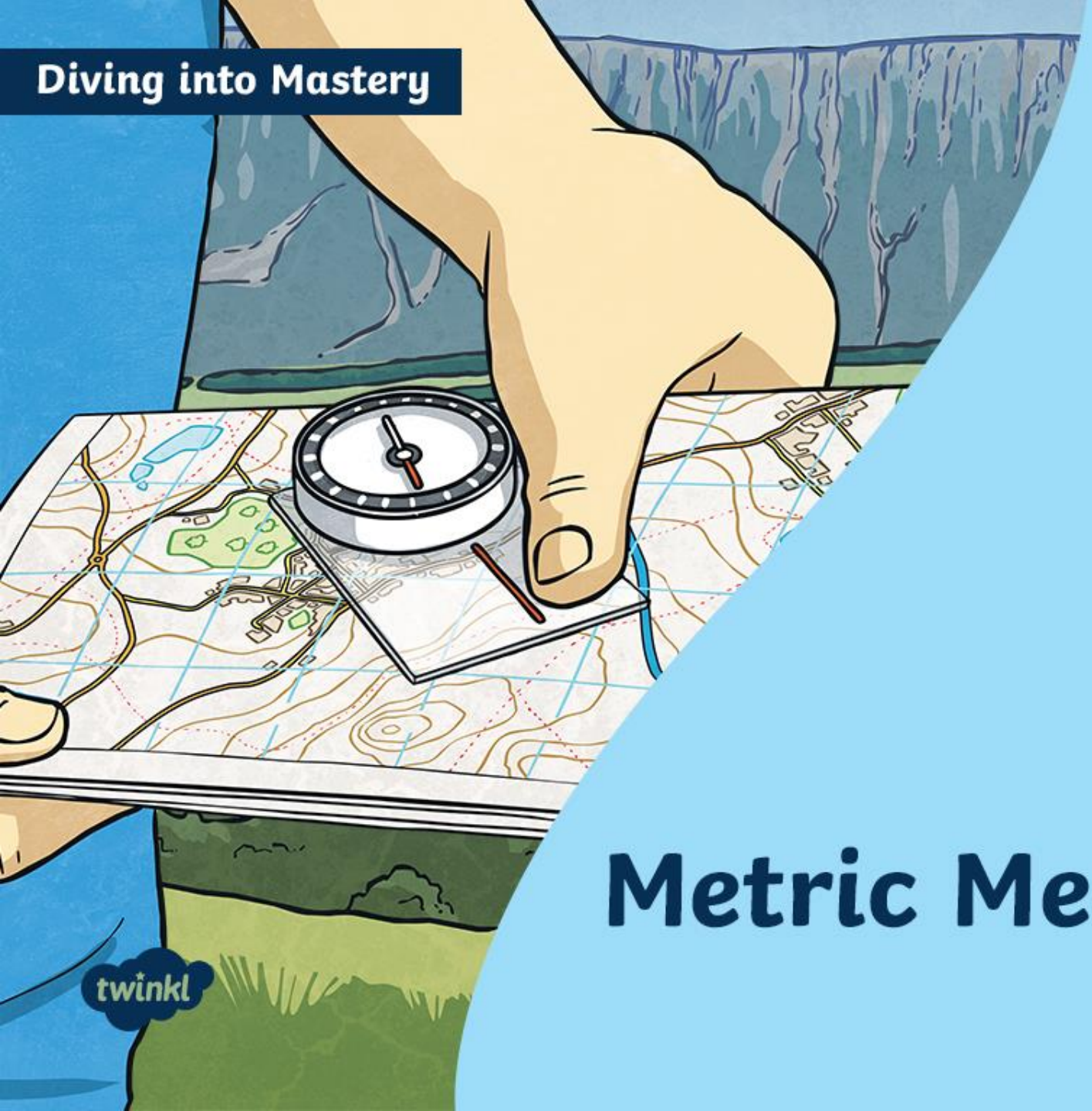
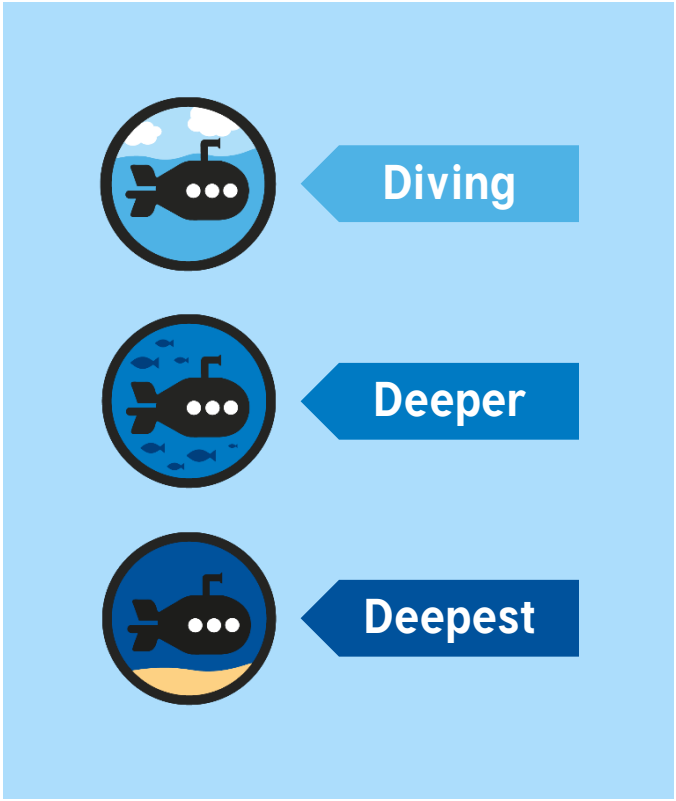
Diving into Mastery



Metric Measures

Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

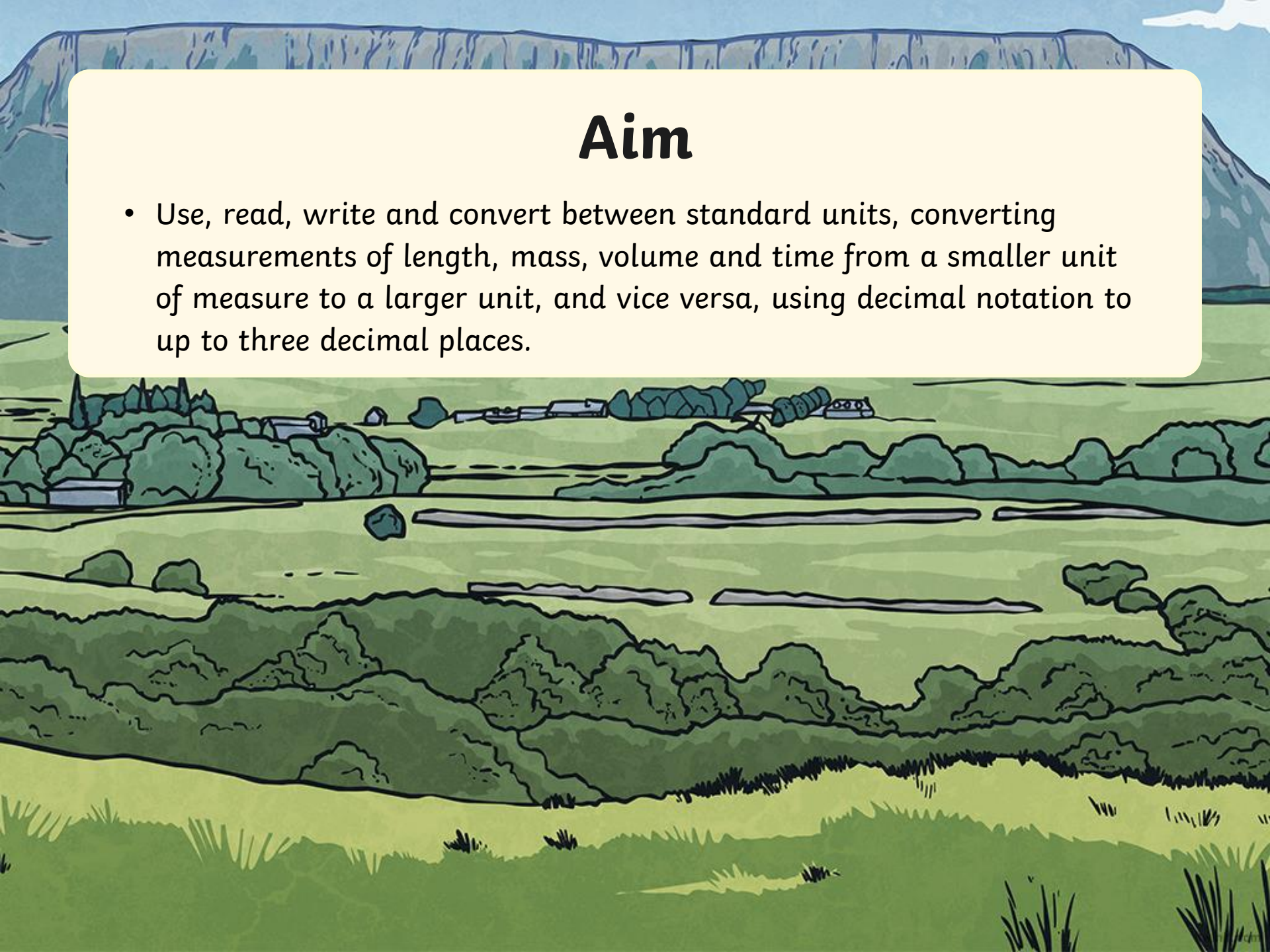


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

- Use, read, write and convert between standard units, 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.



Metric Measures | **Diving**

Place these units of metric measure in the correct area of the chart.

metres (m)
kilometres (km)
kilograms (kg)
millilitres (ml)
grams (g)
litres (l)
millimetres (mm)
tonnes (t)
centimetres (cm)

Length	millimetres (mm) centimetres (cm) metres (m) kilometres (km)
Mass	grams (g) kilograms (kg) tonnes (t)
Capacity and Volume	millilitres (ml) litres (l)

Give the most appropriate unit of measurement for each of these objects:

mass of an apple: **grams**

the amount of water held in a bath: **litres**

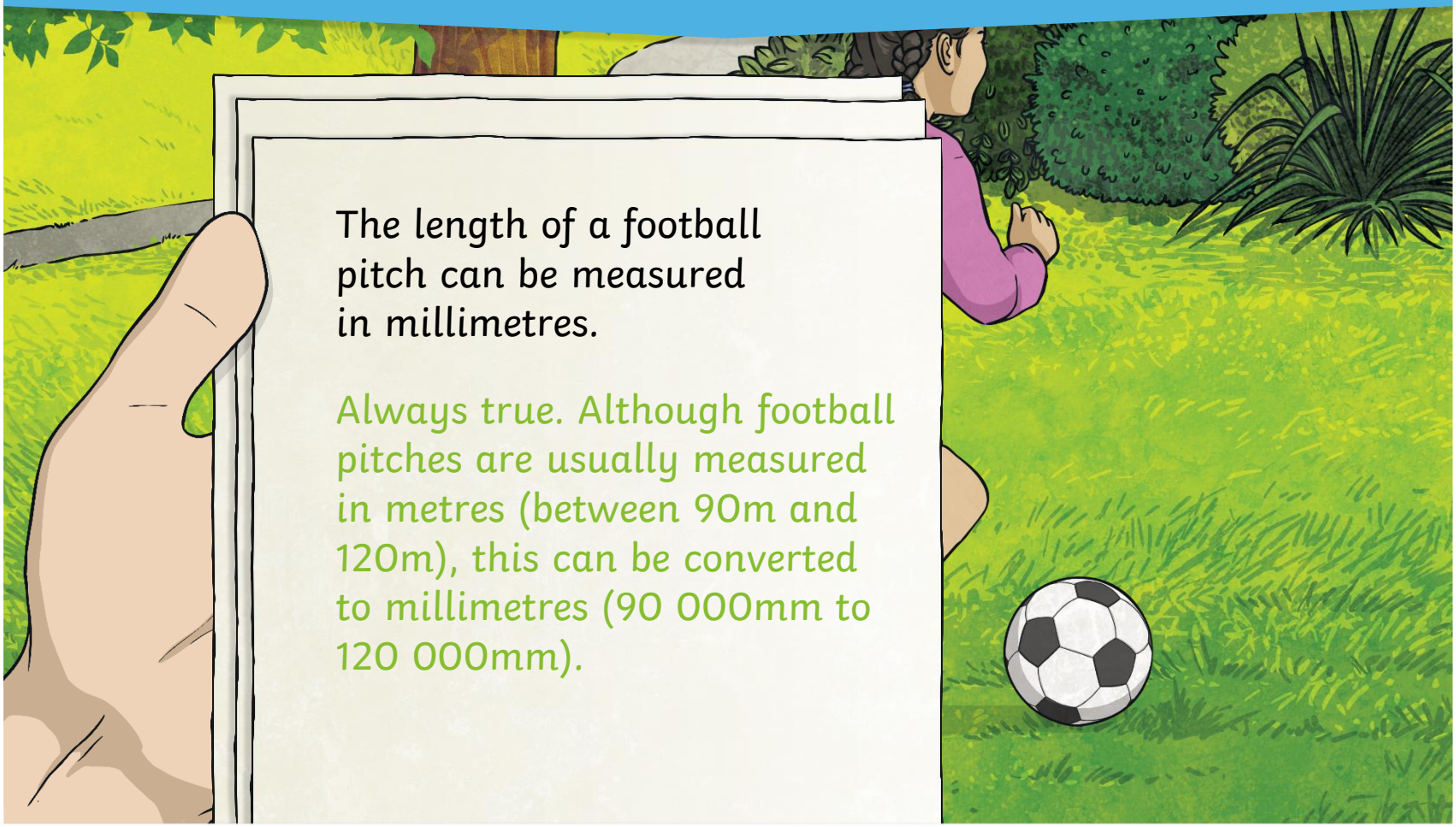
mass of a dog: **kilograms**

distance of a marathon run: **kilometres**

length of a fingernail: **millimetres**

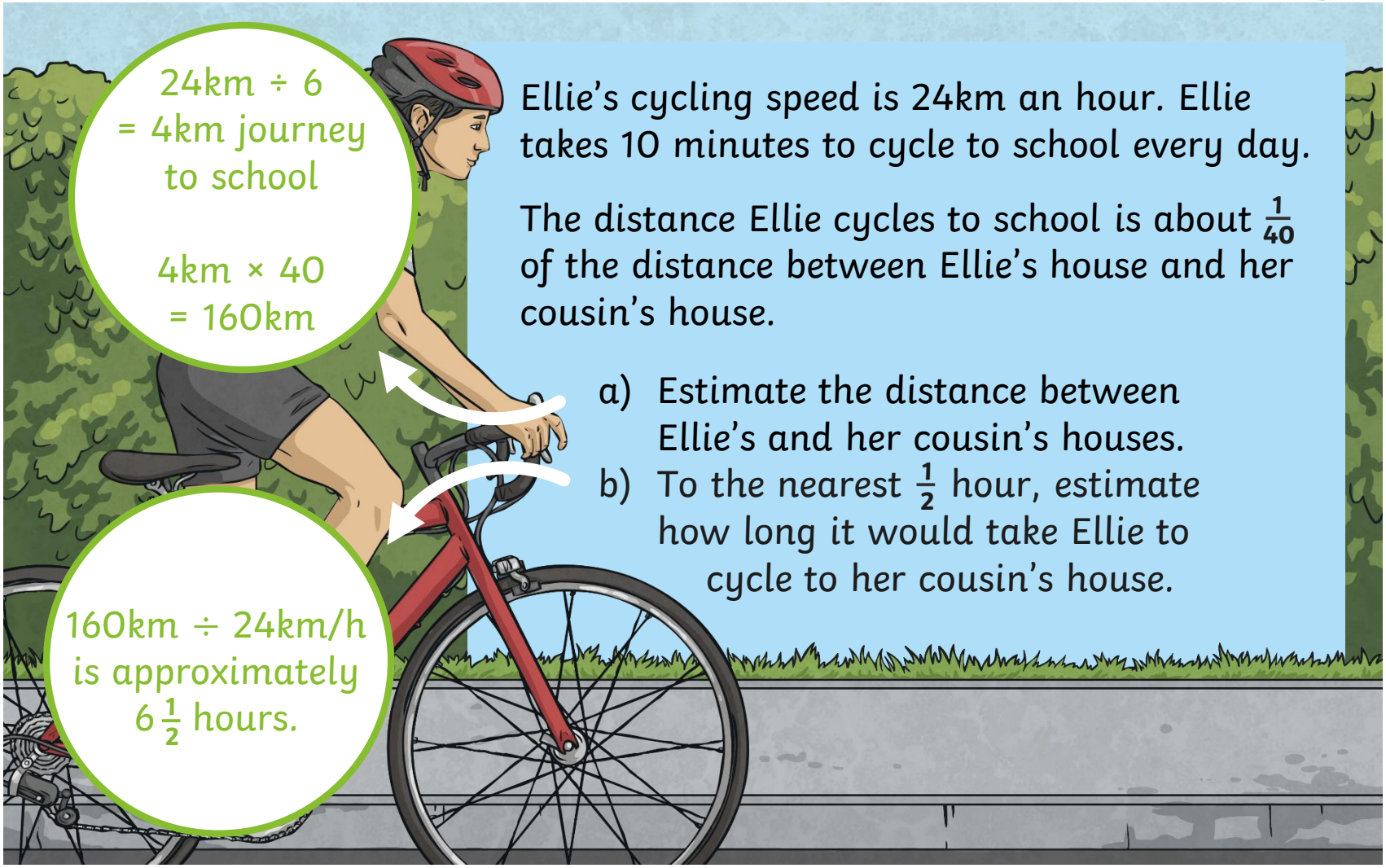
the volume of a drink in a can: **millilitres**

Always, sometimes or never true? Prove it!



The length of a football pitch can be measured in millimetres.

Always true. Although football pitches are usually measured in metres (between 90m and 120m), this can be converted to millimetres (90 000mm to 120 000mm).



Ellie's cycling speed is 24km an hour. Ellie takes 10 minutes to cycle to school every day.

The distance Ellie cycles to school is about $\frac{1}{40}$ of the distance between Ellie's house and her cousin's house.

a) Estimate the distance between Ellie's and her cousin's houses.

b) To the nearest $\frac{1}{2}$ hour, estimate how long it would take Ellie to cycle to her cousin's house.

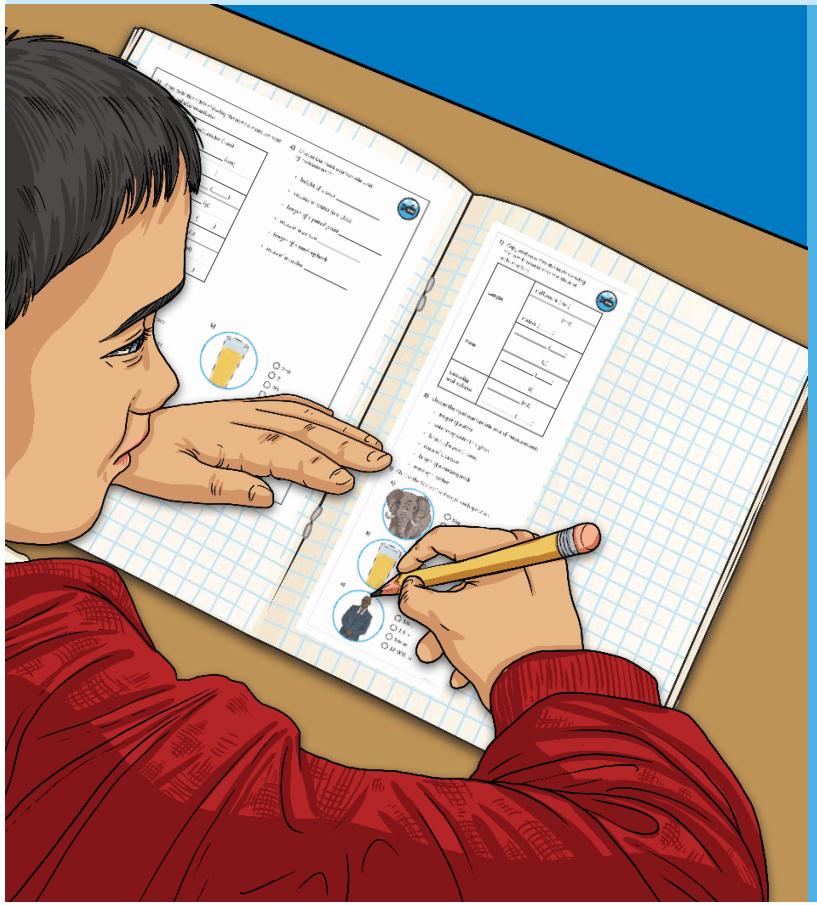
24km ÷ 6
= 4km journey to school

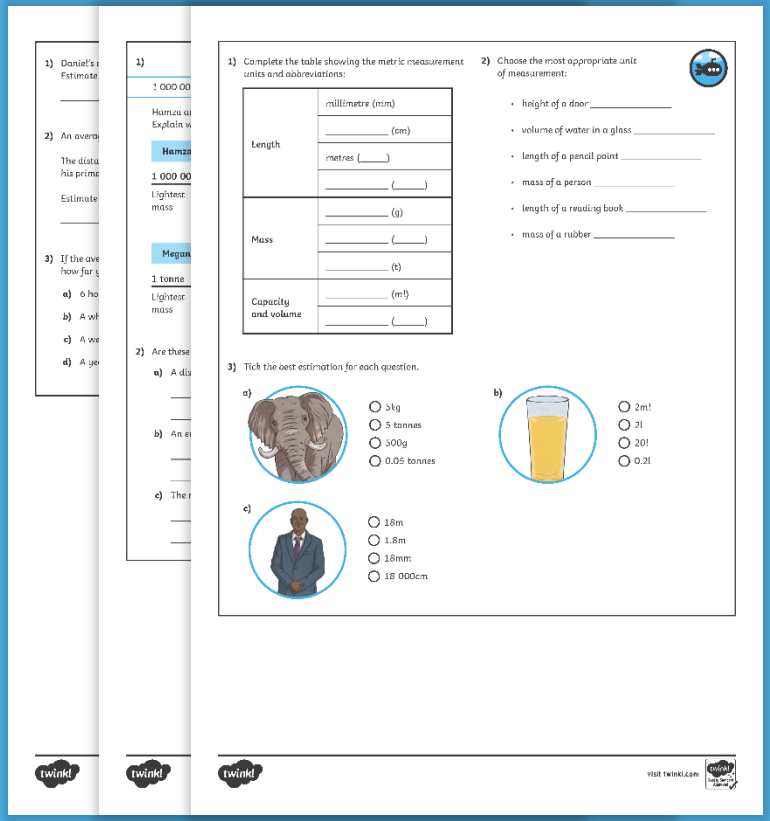
4km × 40
= 160km

160km ÷ 24km/h is approximately $6\frac{1}{2}$ hours.

Metric Measures

Dive in by completing your own activity!





1) Complete the table showing the metric measurement units and abbreviations:

Length	millimetre (mm)	
	_____ (cm)	
	metres (_____)	
	_____ (_____)	
Mass	_____ (g)	
	_____ (_____)	
	_____ (t)	
Capacity and volume	_____ (ml)	
	_____ (_____)	

2) Choose the most appropriate unit of measurement:

- height of a door _____
- volume of water in a glass _____
- length of a pencil point _____
- mass of a person _____
- length of a reading book _____
- mass of a rubber _____

3) Tick the best estimation for each question.

a)
- ○ 5kg
- ○ 5 tonnes
- ○ 500g
- ○ 0.05 tonnes

b)
- ○ 2ml
- ○ 2l
- ○ 20l
- ○ 0.2l

c)
- ○ 18m
- ○ 1.8m
- ○ 18mm
- ○ 18 000cm

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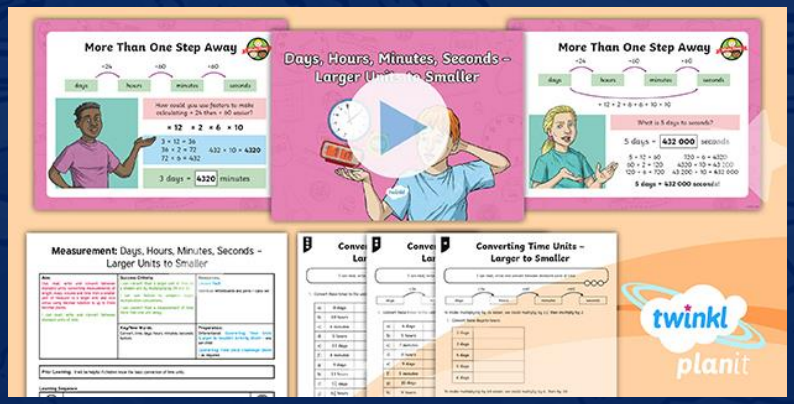
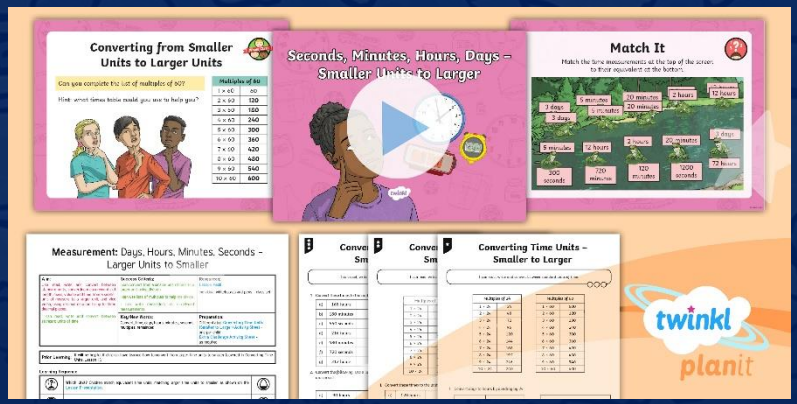
Need Planning to Complement this Resource?

National Curriculum Aim

Use, read, write and convert between standard units, 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.

For more planning resources to support this aim, click here.





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