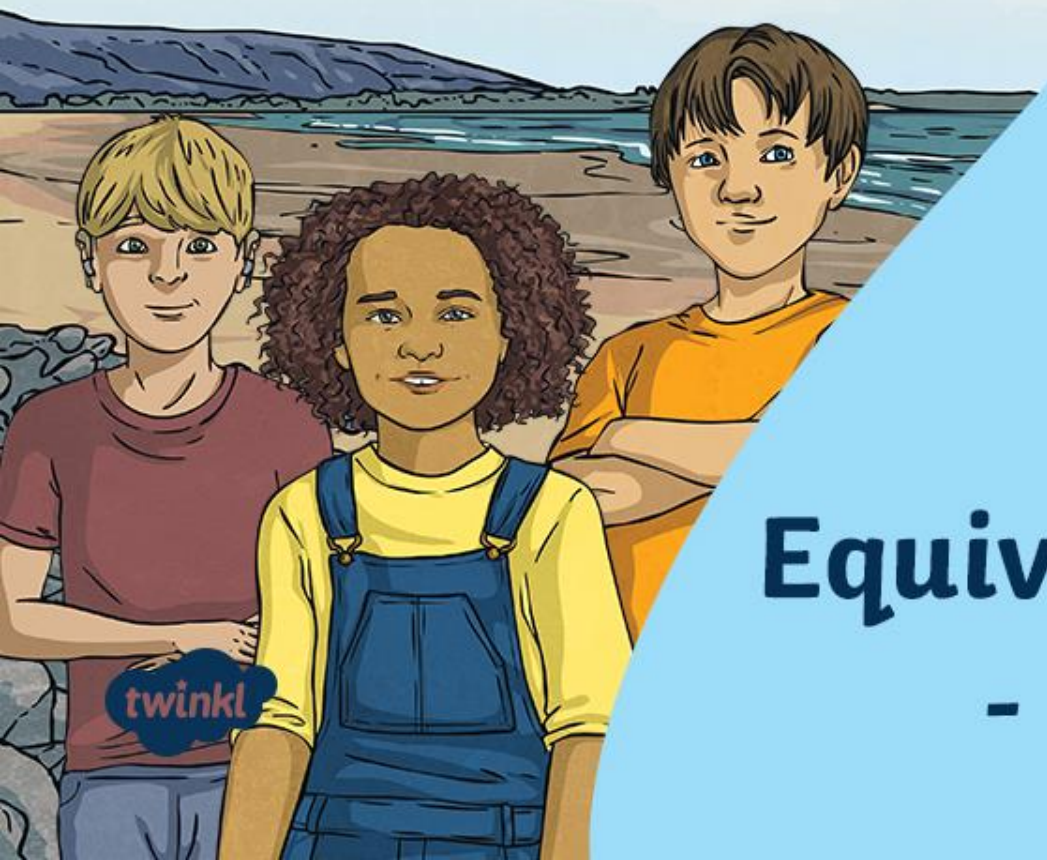
Diving into Mastery



Equivalent Lengths - mm & cm

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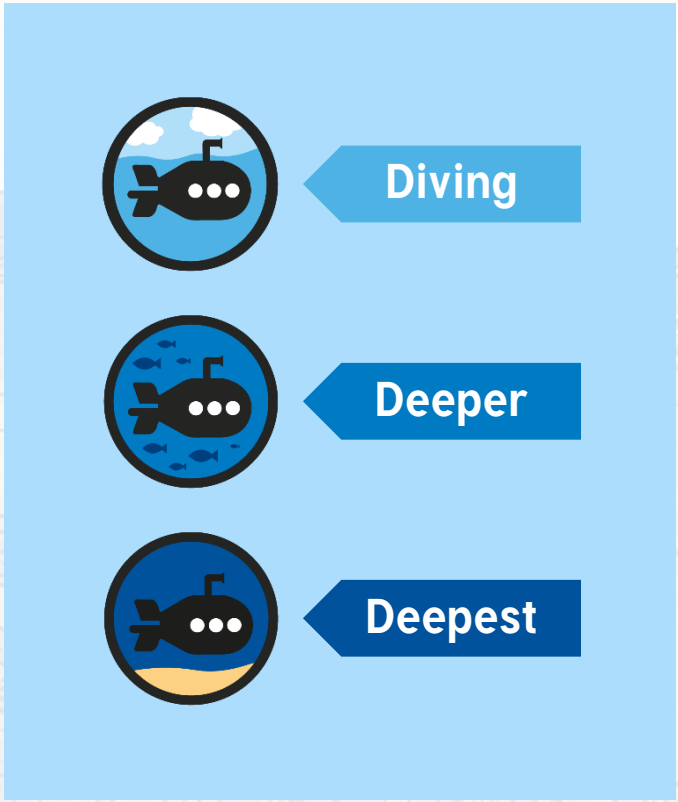
Diving into Mastery Guidance for Educators

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.

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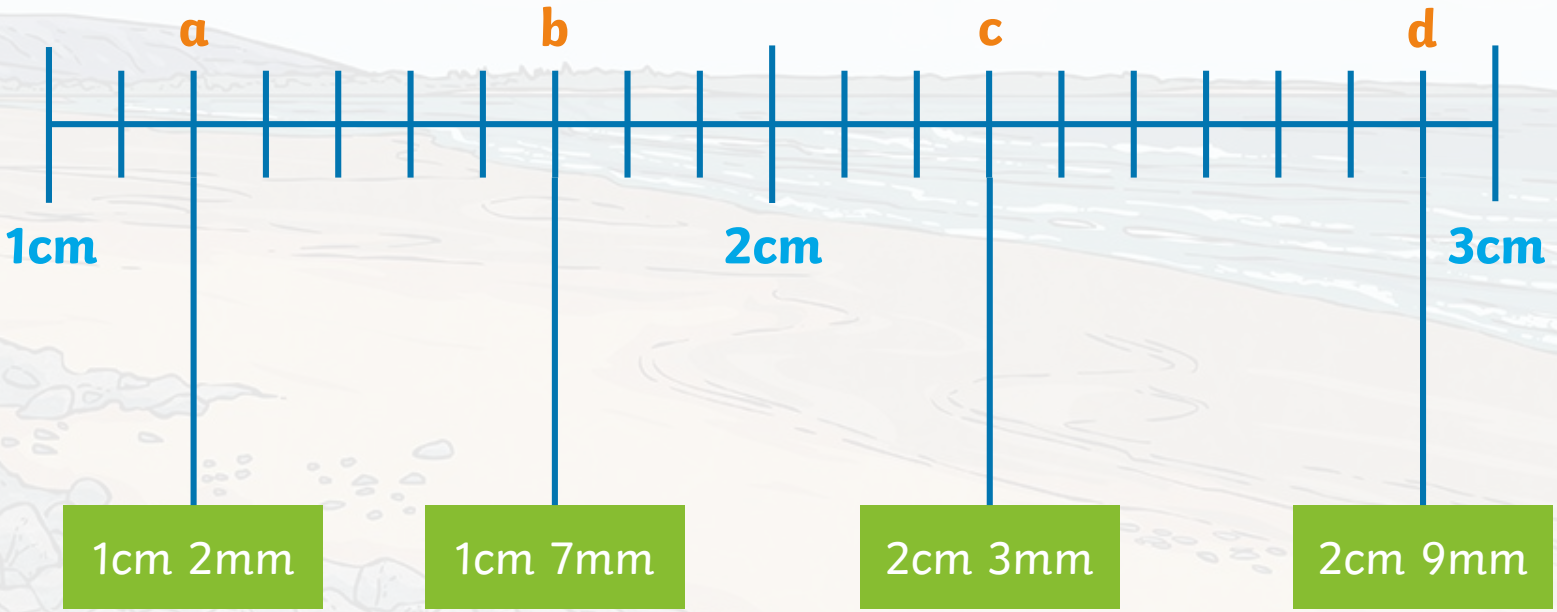
Aim

- Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).

Equivalent Lengths – mm & cm | **Diving**

Calculate the missing measurements.



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Equivalent Lengths – mm & cm | **Diving**

Complete the missing measurements.

cm	=	mm
20	=	200
50	=	500
90	=	900
250	=	2500

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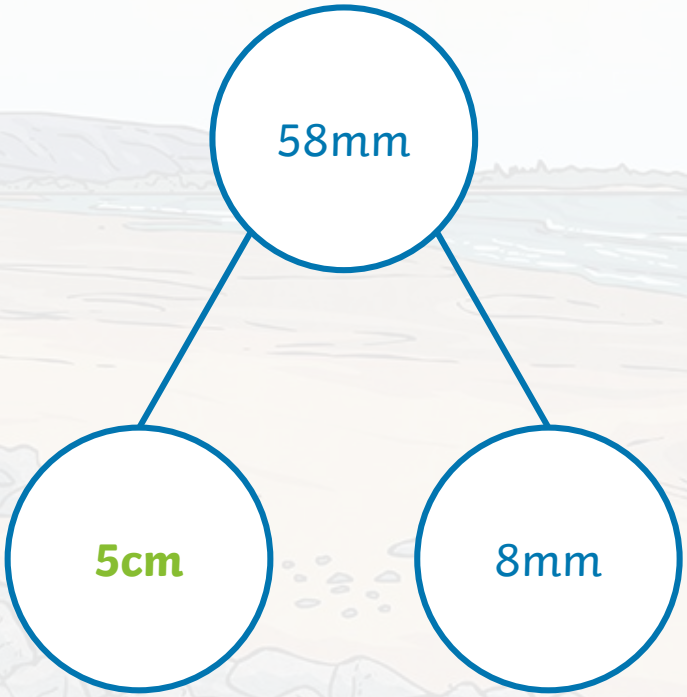
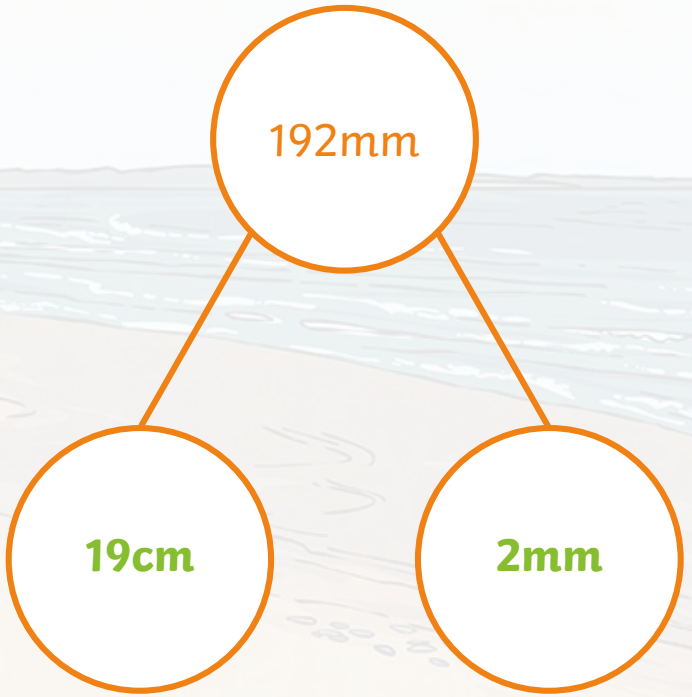
Equivalent Lengths – mm & cm | **Deeper**

Complete the part-whole models.





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Equivalent Lengths – mm & cm | **Deeper**

Elena and Mario are cutting strips of paper.

My piece is 98mm long.

My piece is 10cm long. It's shorter than yours.

Do you agree with Mario? Give your reasons.

Mario is not correct. 10cm is 100mm, which is longer than 98mm.

Elena

Mario

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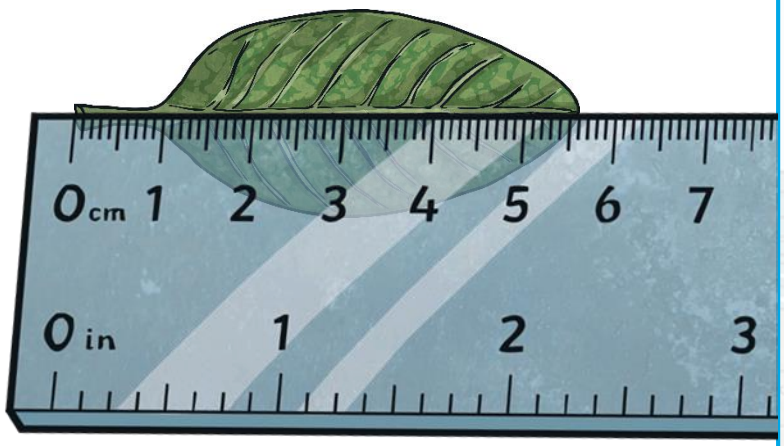
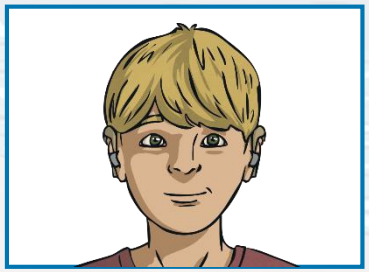
Equivalent Lengths – mm & cm | **Deeper**

Margaret, Owen and Oliver have measured this leaf.



The leaf is 56cm long.

The leaf is 5cm 6mm long.



The leaf is 56mm long.

Both Owen and Oliver are correct as 56mm is 5cm 6mm. Margaret is not correct.

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Equivalent Lengths – mm & cm

Deepest

Rhys, Ali, Amelia and Jason measured some shells.
Use the clues to work out which shell each child is describing.

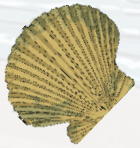
Rhys	My shell measured 59mm.
Ali	My shell measured 15cm 9mm.
Amelia	My shell measured less than 7cm.

Now write a clue for the shell Jason measured.

A

B

C

D 

68mm	5cm 9mm	159mm	95mm
Amelia measured this shell.	Rhys measured this shell.	Ali measured this shell.	Jason measured this shell.

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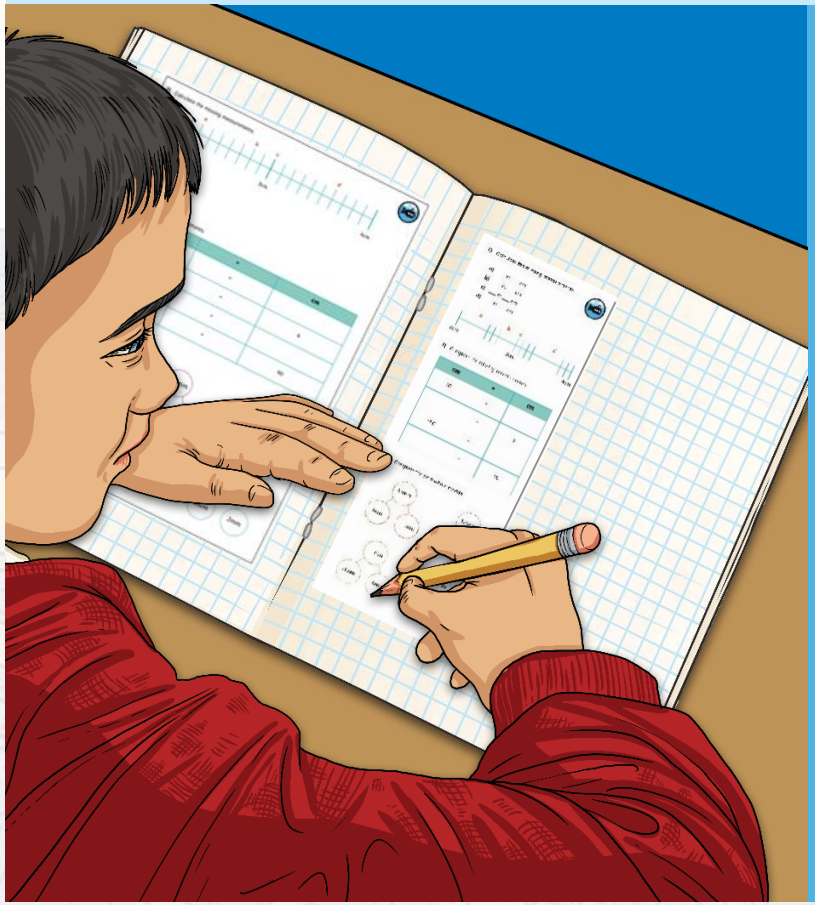
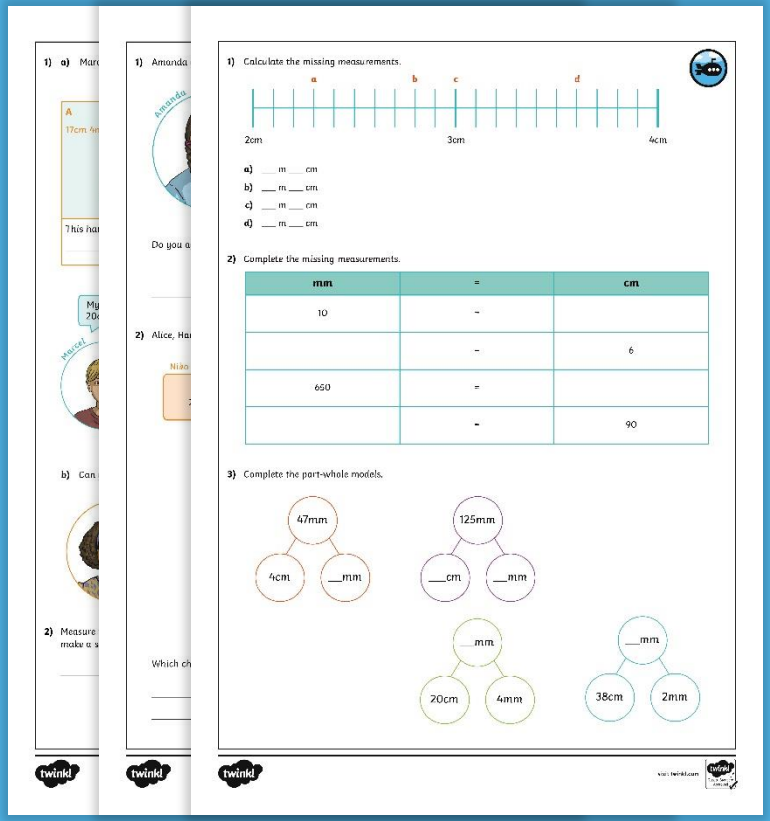
Equivalent Lengths – mm & cm

Dive in by completing your own activity!





1) Calculate the missing measurements.

a b c d

2cm 3cm 4cm

a) ___ m ___ cm
b) ___ m ___ cm
c) ___ m ___ cm
d) ___ m ___ cm

2) Complete the missing measurements.

mm	=	cm
10	=	
	=	6
650	=	
	=	90

3) Complete the part-whole models.

47mm
4cm ___mm

125mm
___cm ___mm

___mm
20cm 4mm

___mm
38cm 2mm

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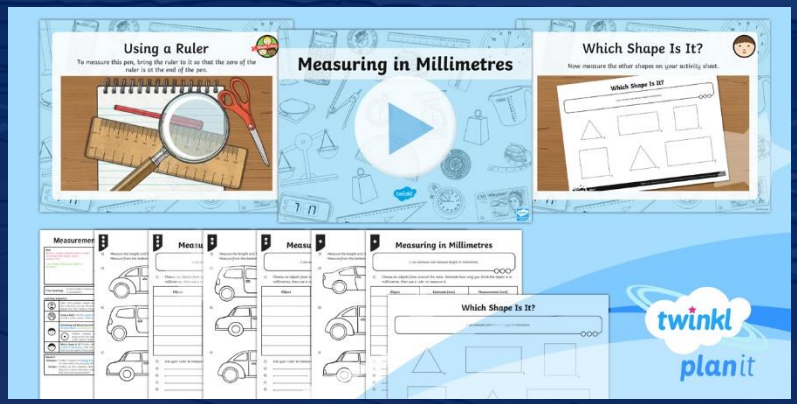
Need Planning to Complement this Resource?

National Curriculum Aim

Measure, compare, add and subtract: lengths; mass; volume/capacity.

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



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