# WALT compare volume.

### WILF:

- Understand what volume is.
- -Know what a cubed measurement is and where to use it (3).

4.2...

- Estimate volume.
- Compare volume.

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- Use problem solving language.

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# Recap:

# What is volume?

# How do we find it?

# What is it measured in?

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## Recap:

# What is volume?

Volume is how much space 3D shapes take up. How do we find it? Multiply - height x width x depth What is it measured in? cm<sup>3</sup> The <sup>3</sup> is pronounced 'cubed'.









### Which of these shapes has the greatest volume?









### What is the volume of this cuboid?



Remember: length x width x height

Could these cubes be arranged any other way?



twinkl.com

Amelie has made a shape out of 1cm cubes. Its volume is smaller than the blue model but greater than the pink model.

What could her shape look like? Make or draw it!

#### What **could** its volume be?



To figure this out, calculate the volume of the blue and pink cuboids. Then, follow the rules above.



Amelie has made a shape out of 1cm cubes. Its volume is smaller than the blue model but greater than the pink model.

What could her shape look like? Make or draw it!

### What **could** its volume be?



Anywhere between 25cm<sup>3</sup> to 29cm<sup>3</sup>



A shape made of 1cm cubes with a base that is 3cm long and 2cm wide can't have a volume greater than this shape.

Is Sam correct?



A shape made of 1cm cubes with a base that is 3cm long and 2cm wide can't have a volume greater than this shape.

Is Sam correct?



No. We only know that the base layer of cubes is equal to 6cm<sup>3</sup> – the shape could be any height.

#### Comparing Volume

Now complete today's activity. Challenge yourself with your selection. If the sheet does not challenge you, move onto the next sheet.

