

Knowledge Organiser

Year Group	Subject	Торіс
6	Mathematics	Areas, perimeters and volume

The Big Picture

In this unit, children review previous learning about shapes' areas and perimeters. They explore areas and perimeters of rectangles and rectilinear shapes, as well as the area of triangles by counting squares and focusing on right-angled triangles. They extend this knowledge to find the area of any triangle. Additionally, they delve into volume, starting with understanding it as the space a solid object occupies. They progress from counting cubes to measuring volume in cubic centimetres (cm3) and finding the volumes of cuboids using multiplication and formulas.

Enquiry Question

What is perimeter? What is area?

How can you find the area of this shape? Is there more than one way?

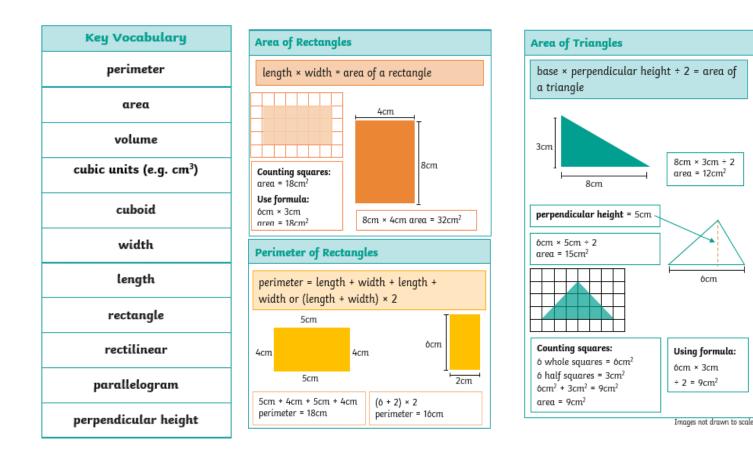
How is finding the area of a triangle similar to finding the area of a rectangle when counting squares? How is it different?

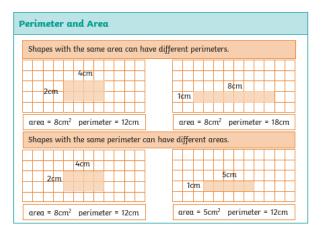
How can you split the rectangle into two right-angled triangles?

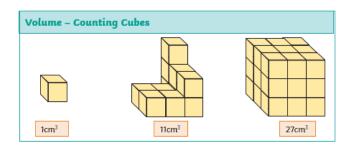
What is the formula for the area of a triangle?

How can you find the area of this shape? Is there more than one way?

How could you change the parallelogram into a rectangle? How will this help you to find the area?



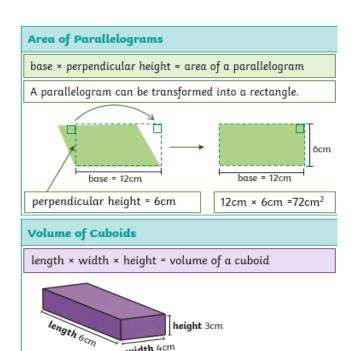




What can my child do at home?

- ✓ Have a look through the Knowledge Organiser and study the key terminology, ensuring that they understand what they mean.
- \checkmark Use the useful links above, particularly if there is a unit that you find more difficult to grasp
- \checkmark Learn weekly times tables and number facts. These will be tested on the same day as spellings.
- ✓ Login to Mathletics to revise topics taught.





Multiply dimensions in any order: 3cm × 6cm × 4cm volume = 72cm³

width 4cm

Images not drawn to scale