Mereside
Church of England Primary Academy
Learn to Love, Love to Learn

Year: Year 6

Subject: Maths

Title: Area, Perimeter and Volume

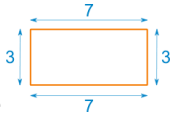
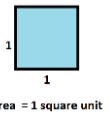
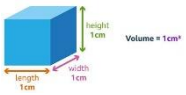
What key knowledge do I need to have before this unit?

- I understand that a square has 4 equal sides
- I understand that rectangles have opposite equal sides
- I know the number of sides of polygons up to 8
- I know how to double integers and my times tables up to 12
- I know that distance can be measured in mm, cm, m and km and can convert between these
- I know how to calculate the perimeter of polygons
- I know how to calculate the area of rectangles and compound shapes

Key outcomes:

What I need to know by the end of this unit of work:

I can calculate the area of shapes.
I can calculate the perimeter of shapes.
I can calculate the area of a triangle.
I can calculate the area of parallelograms.
I can calculate the volume of a cuboid.

National Curriculum Links:	**Key Vocabulary:**	**Definition:**
Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units.	Perimeter	The total distance around the edge of a two-dimensional shape or figure. It is calculated by adding up the lengths of all the sides of the shape 
	Area	The amount of space inside a two-dimensional shape or figure, measured in square units 
	Volume	Volume in math is the total amount of 3D space an object or shape occupies, typically measured in cubic units 
	Composite	A shape that is made up of two or more simpler shapes. These shapes can be polygons or other figures combined together
	Rectilinear	A term describing shapes or figures that have straight sides and right angles
	Polygon	A closed, two-dimensional shape with straight sides. The sides must not curve and must connect to form a complete boundary.
	Regular	A polygon in which all sides and angles are equal.