## In this unit, I will:

- Find and draw shapes with the same area or perimeter.
- Explore how the perimeter changes when the area changes and vice versa.
- Calculate the area of parallelograms and triangles
- Calculate and estimate the volume of cubes and cuboids.


## National Curriculum Link - Year 6 Measurement

- 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 ( $\mathrm{cm}^{3}$ ) and cubic metres ( $\mathrm{m}^{3}$ ) and extending to other units (for example, $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$ ).


## How does this unit build on prior learning?

This unit builds on the concepts of area and perimeter learned in Year 5. Previous methods (including doubling of the length and width to calculate perimeter, or multiplying the width and length of a rectangle to calculate its area) will be used as a starting point.
Before you start this unit, it is expected you:
can define the concepts of area, perimeter and volume

- can make links between the length and width of a rectangle and its area
- can find the perimeter of shapes when all side lengths are given.


## Year 6 - Measure - Perimeter, Area and Volume

## Area of Rectangles



## Area of Parallelograms

base $\times$ perpendicular height $=$ area of a parallelogram
A parallelogram can be transformed into a rectangle.




