



# MEASURE (Area, Perimeter and Volume) YEAR 6

Strand	What do I already know?	What am I going to be learning?	What will I learn next?
<b>Comparing and estimating</b>	<p>compare, describe and solve practical problems for: lengths and heights; mass/weight; capacity and volume; time (Y1)</p> <p>compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math> (Y2)</p> <p>estimate, compare and calculate different measures, including money in pounds and pence (Y4)</p> <p>calculate and compare the area of squares and rectangles including using standard units, square centimetres (<math>\text{cm}^2</math>) and square metres (<math>\text{m}^2</math>) and estimate the area of irregular shapes (Y5)</p> <p>estimate volume (Y5)</p>	<p>calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (<math>\text{cm}^3</math>) and cubic metres (<math>\text{m}^3</math>), and extending to other units such as <math>\text{mm}^3</math> and <math>\text{km}^3</math>.</p>	KS3 Maths
<b>Measuring and calculating</b>	<p>measure and begin to record the following: lengths and heights; mass/weight; capacity and volume; time(Y1)</p> <p>use standard units to estimate and measure length/height in any direction (m/cm); mass (kg/ (Y3)g); temperature (<math>^{\circ}\text{C}</math>); capacity (litres/ml), using rulers, scales, thermometers and measuring vessels (Y2)</p> <p>measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) (Y3)</p> <p>estimate, compare and calculate different measures, including money in pounds and pence (Y4)</p> <p>use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling (Y5)</p> <p>measure the perimeter of simple 2-D shapes (Y3)</p> <p>measure and calculate the perimeter of squares and rectangles in centimetres and metres (Y4)</p> <p>measure and calculate the perimeter of shapes made up of squares and rectangles, in centimetres and metres (Y5)</p> <p>find the area of rectangles and squares by counting squares (Y4)</p> <p>calculate and compare the area of squares and rectangles including using standard units, square centimetres (<math>\text{cm}^2</math>) and square metres (<math>\text{m}^2</math>) and estimate the area of irregular shapes (also recognise and use notation for squared and cubed) (Y5)</p>	<p>solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (<i>also covered in the autumn term</i>)</p> <p>recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>calculate the area of parallelograms and triangles</p> <p>calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (<math>\text{cm}^3</math>) and cubic metres (<math>\text{m}^3</math>), and extending to other units [e.g. <math>\text{mm}^3</math> and <math>\text{km}^3</math>].</p> <p>recognise when it's possible to use formulae for area and volume</p>	KS3 Maths
<b>Vocabulary</b>	Cube, cuboid, rectilinear, regular, irregular, area, perimeter, square, rectangle, triangle, parallelogram, cubed, cubic, squared, formula.		