

## Year 6 Area, Perimeter, Volume and Measure Learning Journey

Ready to Progress

Non-statutory guidance for key skills and knowledge needed

Resources, ideas and assessment questions available in the Maths Guidance NCETM

Year 5 Prior Learning	Year 6	NCETM
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	Recognise that shapes with the same areas can have different perimeters and vice versa	
✓ Calculate the perimeter of composite shapes when dimensions are known.		
✓ Measure and calculate the perimeter of composite shapes when dimensions are unknown.		
✓ Solve problems involving perimeter.		
Calculate and compare the area of squares and rectangles including using standard units, square centimetres and square metres and estimate the area of irregular shapes.	Calculate the area of parallelograms and triangles	
✓ Calculate the area of squares	✓ Calculate the area of triangles	
✓ Calculate the area of rectangles	✓ Calculate the area of parallelograms	
✓ Estimate the area of irregular shapes		
Estimate volume (e.g. using 1cm <sup>3</sup> blocks to build cubes and cuboids) and capacity (e.g. using water)	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm <sup>3</sup> , m <sup>3</sup> and extending to other units e.g. mm <sup>3</sup> and km <sup>3</sup>	
	Recognise when it is possible to use formulae for area and volume of shapes	
Convert between different units of metric measure (e.g. kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit and vice versa, using decimal notation to up to 3 decimal places	
✓ Convert between kilometre and metre	✓ Converting measurements of length, from a smaller unit of measure to a larger unit and vice versa	

✓ Convert between centimetre and millimetre	✓ Convert measurements of mass from a smaller unit of measure to a larger unit and vice versa	
✓ Convert between gram and kilogram	✓ Convert measurements of volume from a smaller unit of measure to a larger unit and vice versa	
✓ Convert between litre and millilitre	✓ Convert measurements of time from a smaller unit of measure to a larger unit and vice versa	
	Solving problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	
	Convert between miles and kilometres	