

## Year 6 Geometry Properties of Shapes and Coordinates 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
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Recognise, describe and build simple 3-D shapes, including making nets.	
	✓ Identify properties of 3-D shapes	
	✓ Identify and draw nets for 3-D shapes	
	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	
	Draw 2-D shapes using given dimensions and angles	
Use the properties of rectangles to deduce related facts and find missing lengths and angles	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons	
Distinguish between regular and irregular polygons based on reasoning about equal sides		
Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	Describe positions on the full coordinate grid (all 4 quadrants)	
✓ Identify, describe and represent the position of a shape following a reflection	✓ Plot coordinates in all 4 quadrants	
✓ Identify, describe and represent the position of a shape following a translation	✓ Read coordinates in all 4 quadrants	
	✓ Identify missing coordinates for 2 D shapes	
	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	
	✓ Translate shapes on the coordinate plane	
	✓ Reflect shapes in the x and y axes	