

Year 5 Geometry Properties of Shapes 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 4 Prior Learning	Year 5	NCETM
Identify lines of symmetry in 2-D shapes presented in different orientations.	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	
✓ Classify lines of symmetry of a 2D shape.		
✓ Identify a line of symmetry of a pattern and for a diagram of a reflection.		
	Revise reading and plotting co-ordinates in the 1 st quadrant	
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	Use the properties of rectangles to deduce related facts and find missing lengths and angles	
✓ Identify and describe an equilateral triangle.	✓ Use the properties of rectangles to find missing lengths and angles	
✓ Identify and describe an isosceles triangle.	✓ Use the properties of rectangles to find points on a co-ordinate grid	
✓ Identify and describe a scalene triangle.		
✓ Identify and describe a parallelogram.		
✓ Identify and describe a rhombus.		
✓ Identify and describe a trapezium.		
✓ Identify and describe a kite.		
✓ Classify 2D shapes.		
	Distinguish between regular and irregular polygons based on reasoning about equal sides	
	Know the difference between a regular and irregular polygon	
	Use the properties of regular polygons to find points on a co-ordinate grid	
Describe positions on a 2D grid as coordinates in the first quadrant	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	
✓ Read the coordinates of a point on a grid in the 1st	✓ Identify, describe and represent the position of a shape following a	

quadrant.	reflection	
✓ Write the coordinates of a point on a grid in the 1st quadrant.	✓ Identify, describe and represent the position of a shape following a translation	
✓ Plot points using coordinates and join up the points to create a shape.		
Describe movements between positions as translations of a given unit to the left/right and up/down		
✓ Move (translate) a point on a grid by a given set of jumps either up/down or left/right		

Summer term Topics

- Measurement
- Area and Perimeter
- Reflection and rotation
- 3D shapes
- Time

When this is complete.... Revision and application of topics to problem solving