

Year 4 Maths: Geometry -Position and direction.

What should I already know?

- Use vocabulary to describe position, direction and movement.
- Distinguish between rotation as a turn and identify clockwise and anticlockwise.
- Identify quarter, half and three quarter turns and links these to right angles.
- Identify shapes in patterns and sequences linked to turns.

Key Knowledge

2 3 4 5

Describe position using co-ordinates in the first quadrant:



Control of the second se

Translate points and polygons:



Translate A 2 squares to the **right** (B).

Translate the polygon labelling each point A, B, C, D Label each vertex with a letter and write the co-ordinates.

Plot points and create given polygons:



Plot (5,3); (1,3); (1,5); (5,5) Join each point to create a polygon.

Describe translations:



Choose one point on shape A and describe how it has moved: 2 points **right** and 5 points **down**.

Axis/Axes	Vertical (y) and horizontal
	(x) lines drawn to make a
	quadrant.
Quadrant	A region enclosed by the x
	axis and y-axis.
Co-ordinate	Numbers which specify a
	point (x,y) on a map or
	grid.
Scale	The units which the scale i
	divided.
Plot	To draw on a map or graph
Polygon	A 2-D shape with straight
	sides that are fully closed.
Translation	Moves every point in a
	shape by the same distance
	in the same direction
	without rotating or
	resizing.
x-axis	The horizontal line drawn
	on an axis.
y-axis	The vertical line drawn on
	an axis.
Vertex	The corner of a shape
	where 2 lines meet.
Vertices	More than one vertex.

