Mereside
Church of England Primary Academy
Learn to Love, Love to Learn

Year: Year 6

Subject: Maths

Title: Position and Direction

What key knowledge do I need to have before this unit?

- I understand that we read coordinates horizontally then vertically
- I understand that there can be different intervals used for labelling axis
- I can find and plot a given coordinate on a single quadrant grid
- I can describe a point using coordinates and write it correctly into brackets
- I can plot multiple points and connect them to make shapes
- I can reflect using horizontal and vertical lines

Key outcomes:

What I need to know by the end of this unit of work:

I can read and plot coordinates on a four-quadrant graph
I can problem solve with coordinates
I can translate shapes using coordinates or directional instructions
I can recognise and use lines of symmetry
I can reflect in horizontal and vertical lines

National Curriculum Links:	Key Vocabulary:	Definition:
Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	Coordinates	A pair of numbers (x, y) used to locate a point on a plane. The first number indicates the position along the x-axis (horizontal), and the second along the y-axis (vertical).
	X-axis	The horizontal axis in a coordinate plane running left to right.
	Y-axis	The vertical axis in a coordinate plane running up and down.
	Horizontal	Parallel to the x-axis.
	Vertical	Parallel to the y-axis.
	Intervals	A range of numbers between two endpoints.
	Symmetry	A property where one half of a figure or graph is a mirror image of the other half.
	Translate	To move a shape or graph without rotating or changing its size or shape. In coordinate geometry, a translation shifts each point of a figure the same distance in a given direction.