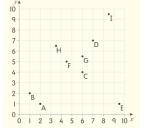
Maths - Year 4

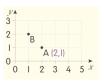
Geometry 4: Reading and plotting positions using coordinates

Key Vocabulary		Mathematical Skills
Grid	A set of lines used to help us accurately draw graphs etc.	 Draw and label coordinate axes correctly. Identify the point where the axes cross as the origin (0,0). Identify the coordinates of a point, and say and write them with the <i>x</i>-coordinate first. Plot a point from given coordinates. Record a translation between points on a coordinate grid using the <i>x</i>- and <i>y</i>-coordinates. Describe the position of the vertices of a polygon using coordinates. Identify missing vertices of a given polygon shown on a coordinate grid. Mark a symmetrical point on a coordinate grid, given a line of symmetry and an existing point.
Gridlines	A series of numbered horizontal and perpendicular lines that divide a map into squares to form a grid by means of which any point may be located by a system of rectangular coordinates	
Grid reference	Using rows and columns to describe a position on a grid, e.g. C4.	
Coordinates	Pairs of numbers describing a position on a grid, e.g. (2,3).	
Axis/axes	The lines that frame a coordinate grid.	
<i>x</i> -axis	The horizontal line which forms part of the frame of a coordinate grid.	
<i>y</i> -axis	The vertical line which forms part of the frame of a coordinate grid.	
<i>x</i> -direction	The horizontal direction on a graph.	
y-direction	The vertical direction on a graph.	
Perpendicular	Lines that are at right angles to each other.	
Parallel	Lines that remain the same distance apart and never touch.	
Vertex/vertices	A point where two sides meet in a flat shape, or a point where three or more edges meet in a 3D shape.	
Line of symmetry	A line that divides a symmetrical object in half.	
Origin	Point where the x-axis and y-axis intersect (0,0).	
Translation	A transformation involving sliding a shape or object to a	

Mathematical Methods

- Identifying coordinates and plotting points on a grid.





- Describing, drawing and using movement on a coordinate grid.

