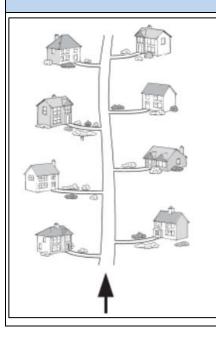
- POSITION and DIRECTION KNOWLEDGE ORGANISER

Overview



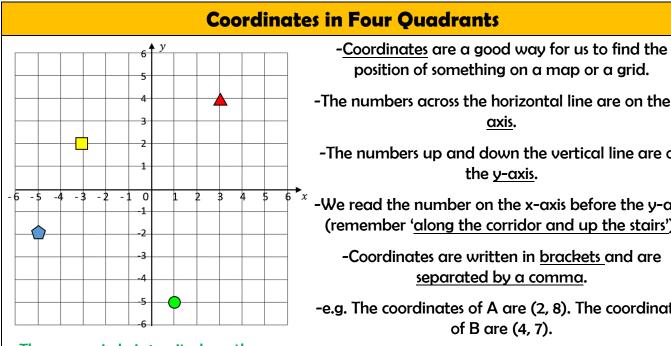
Posit	ion and	Direction	we learn	to:	

- -Read and Plot Coordinates -Problem Solving with Coordinates
 - -Translation with Coordinates -Translation
- Lines of Symmetry -Reflection in Horizontal and Vertical Lines

Position means the location of something – where it is.

Direction means the path along which something moves.

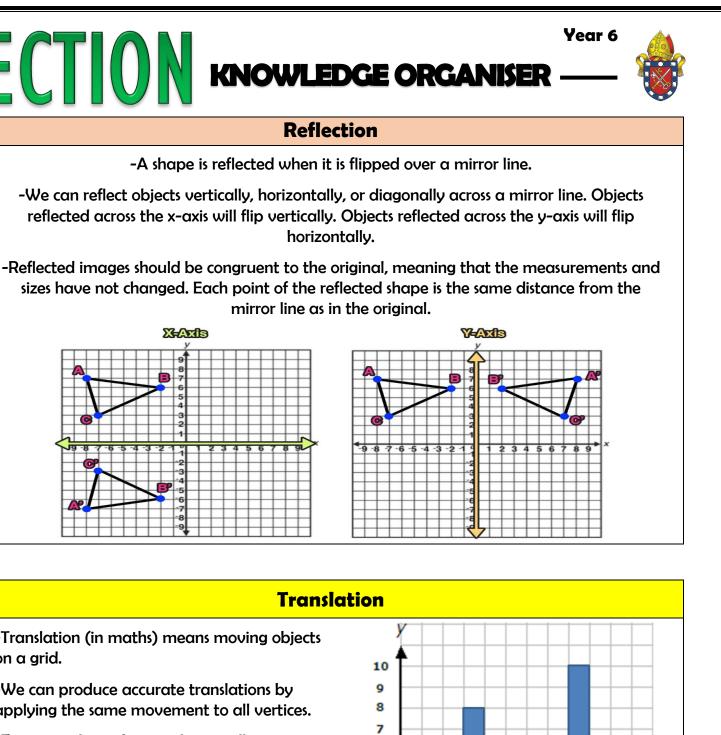
Position and direction is useful learning because it helps us to describe where we are, where things in the world are, and to follow directions to reach different places.



The green circle is 1 unit along the xaxis and 5 units down the v-axis. Therefore, its coordinates are (1, -5).

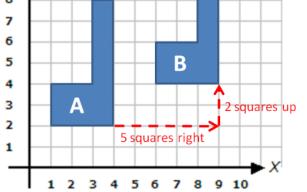
- position of something on a map or a grid.
- -The numbers across the horizontal line are on the x-
- -The numbers up and down the vertical line are on
- -We read the number on the x-axis before the y-axis (remember 'along the corridor and up the stairs').
 - -Coordinates are written in brackets and are separated by a comma.
- -e.g. The coordinates of A are (2, 8). The coordinates

-Coordinates can use both positive and negative numbers. The x-axis is always written first, even if one of the coordinates is negative.



- -Translation (in maths) means moving objects on a grid.
- -We can produce accurate translations by applying the same movement to all vertices.
- -For example, in this translation, all vertices have been ...
- ...moved 5 squares right along x-axis, and...
- ...moved 2 squares up the y-axis.
- This helps to ensure the shape stays the same size and proportion.

	Key Vocabulary						
Coordinate Plane	Four Quadrants	x-axis	y-axis	Translation	Reflection	Mirror Line	



Horizontal/Vertical

Congruent