Maths - Year 6

Geometry 3: Transformations in the four quadrants

Key Vocabulary		Mathematical Skills
Point of intersection	The point where two lines or two curves meet each other.	 Generalise that coordinates describe position in relation to given axes. Explain that to the right of the y-axis the x-coordinates are positive; to the left of the y-axis the x-coordinates are negative; above the x-axis the y-coordinates are positive; below the x-axis the y-coordinates are negative. Translate coordinates are negative. Translate coordinates accurately using coordinates. Identify the translation that would move an original shape to its new position. Use written coordinates to visualise and predict results. Locate and name coordinates of 'missing' vertices of regular polygons.
Axis/axes	The line/lines that frame a coordinate grid. The x-axis is the horizontal axis and the y-axis is vertical.	
Origin	The starting point.	
Coordinates	Pairs of numbers describing a position on a grid, e.g. (2,3).	
Quadrant	One of the four equal areas made when a grid, or a shape, is divided into four.	
Translation	A transformation involving sliding a shape or object to a differ- ent position in a specific direction.	
Transformation	A way of describing the changes that can be made to the size and/or position of a shape or object, e.g. reflection, translation, rotation or scaling.	
Congruent	Identical in form.	
Bisect	To split something into equal halves.	

Mathematical Methods

- Introducing coordinates in four quadrants.



- Using coordinates in four quadrants.

go to (⁻7,I) pen down go to (⁻7,4) (⁻7,2) (⁻6,3) (⁻5,2) (⁻5,1) pen up



