Stage 7 – Mathematical Movement

WHAT DO WE ALREADY know?

- Work out coordinates in all four quadrants.
- Carry out a translation and reflection when given the horizontal or vertical mirror line.

THE BIG PICTURE

- Identify, draw and describe transformations on a coordinate grid.

- Origin
- Coordinates
- Congruence
- Quadrant
- Translation
- Reflection
- Rotation
- Transformations
- Vector

Mathematical Movement - Targets	Before Topic	After Topic	Teacher Mark
Solve geometrical problems on coordinate axes			
Be able to draw on and state the number of lines of symmetry for a shape.			
Know the term rotational symmetry and be able to state the order of rotational symmetry for a given shape			
Be able to complete the drawing of a shape on a square grid so that it has a given number of lines of symmetry or order of rotational symmetry			
Write the equation of a line parallel to the x-axis or the y-axis			
Construct (when given a line or equation) and describe reflections in horizontal, vertical and diagonal mirror lines (45° from horizontal)			
Construct and Describe a translation as a 2D vector			
Construct and describe rotations using a given angle, direction and centre of rotation			
Solve problems involving rotations, reflections and translations			