MATHS PROGRESSION: Geometry-Position and Direction

- Use developed language to describe the movement, direction and position of an object/shape
- Distinguish between straight movement and rotational movement (turn) knowing the difference between clockwise and anticlockwise (show actual body movement and turn)
- Arrange and position a variety of objects in a particular way to show pattern and sequence
- Reason the pattern using the correct math-

YEAR 2

• Describe position of objects and representations; next to, behind, above , below

RECEPTION

Key:

Counting (intervals)

Identifying, Representing & Estimating , checking

Comparing

Problem solving & Reasoning

Mental arithmetic and known facts

Drawing and labelling

Plotting

YEAR 4

- Describe positions on a 2-D grid as coordinates in the first quadrant
- Describe movement on a grid as translations that have moved up, down, left right any given amount of squares
- Plot specific points using co-ordinates
- Create/complete any given polygon from a set of co-ordinates
- Draw and label a scaled grid / first quadrantwith equal intervals and accurately drawn axis; successfully plot and join points on the grid to complete shapes

- Describe the position, direction and movement of a shape
- Describe the turn of a shape in terms of quarter, half and three-quarter turn

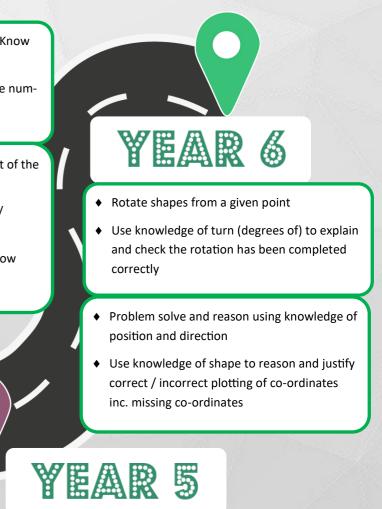
YEAR

- Use the movement of clockwise using a clockface
- Develop the correct vocabulary inc. near, between, forwards, backwards, inside and outside

- Describe position on a grid with all four quadrants (co-ordinates). Know which quadrant is which
- Draw/ construct four quadrant grids inc. the application of negative number scales (equal)
- Accurately draw shapes following a translation or reflection as part of the process of completing shapes/problems
- Know which quadrant the shape must be in based on the positive/ negative nature of the co-ordinates
- Know that shapes can cross-over into neighbouring quadrants ; know how to identify this

YEAR 3

- or translation
- tion or translation
- grams.



• Identify and describe the position and movement of a shape following a reflection

Know that a shape does not change it's fundamental properties following a reflec-

Identify and apply the use of reflection and translation in relation to various dia-

• Draw and label grids with different scaled intervals

• Interpret complete diagrams and grids in order that problem solving and reasoning deepens understanding

• Successfully reflect on lines that are parallel to the axis

