**Maths Medium Term Planning**

**Year Five**

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| **WR Block: Geometry: Position and Direction** | | **Summer Term** | |
| **National Curriculum Objectives** | **Small Steps** | **Prior Learning** | **Future Progression** |
| * Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. | * Read and plot coordinates * Problem solving with coordinates * Translation * Translation with coordinates * Lines of symmetry * Reflection in horizontal and vertical lines | **Y4:**   * Describe positions on a 2-D grid as coordinates in the first quadrant. * Describe movements between positions as translations of a given unit to the left/right and up/down. * Plot specified points and draw sides to complete a given polygon. | **Y6:**   * Describe positions on the full coordinate grid (all four quadrants). * Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |
| **Key Vocabulary**  **New Vocabulary:**  axis of symmetry, reflective symmetry  Congruent | **Key Vocabulary:**  **Previous Year Group:**  line, construct, sketch, centre  reflect, reflection  North-East, North-West, South-East, South-West, NE, NW, SE, SW  translate, translation  rotate, rotation  reflection, compass, coordinate  x-axis, y-axis, quadrant | **Stem Sentences**  Read the \_\_\_ axis before the \_\_\_ axis.  The x-coordinate of the point is \_\_\_\_ and the y-coordinate is \_\_\_. The point has the coordinates (\_\_\_,\_\_\_\_).  The \_\_\_ coordinates of points on a vertical line are equal.  The \_\_\_ coordinates of points on a horizontal line are equal.  Shape A has been translated \_\_\_ squares to the left/right and \_\_\_ squares up/down.  When a shape has been translated, the position of the shape \_\_\_\_\_ but the size of the shape \_\_\_\_.  When a point is translated up/down, the \_\_\_ coordinate stays the same and the \_\_\_ coordinate changes.  When a point is translated left/right, the \_\_\_ coordinate stays the same and the \_\_\_ coordinate changes.  When the point with coordinates is translated left/right and up/down, the new coordinates are (\_\_\_,\_\_\_).  The shape has \_\_\_ lines of symmetry.  Vertex A is \_\_\_ squares away from the mirror line, so the corresponding vertex needs to be \_\_\_\_ squares away from the mirror line. | |
| **Concrete, Pictorial, Abstract Models/ Calculations** | | | |