**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 ortranslation, 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/rightand 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.
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| **Key Vocabulary****New Vocabulary:**axis of symmetry, reflective symmetryCongruent | **Key Vocabulary:****Previous Year Group:**line, construct, sketch, centrereflect, reflectionNorth-East, North-West, South-East, South-West, NE, NW, SE, SWtranslate, translationrotate, rotationreflection, compass, coordinatex-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**  |