**Step 6 and 7 – Geometry**

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| **Curriculum Statement** | **Step 6** |  | **Curriculum Statement** | **Step 7** |
| Draw given angles and measure them in degrees and draw shapes with sides measured to the nearest millimetre. | I can draw angles accurately, and shapes with sides measured to mm. |  | Draw 2D shapes accurately using given dimensions and angles. | I can draw shapes accurately using given measurements and angles. |
| Use conventional markings for parallel lines and right angles. | I can use arrows to mark parallel lines and ‘boxes’ for right angles. |  | Use conventional markings and labels for lines and angles. | I can label shapes from written instructions. |
| Identify 3D shapes, including cubes and other cuboids, from 2D representations. | I can identify 3D shapes from different types of drawings. |  | Build simple 3D shapes, including making nets. | I can draw nets for simple 3D shapes. |
| Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. | I can identify and sort regular and irregular polygons. |  | Compare and classify geometric shapes based on increasingly complex geometric properties and sizes. | I can compare and sort shapes using a variety of their features. |
| Use the term diagonal. | I can draw and name diagonals in different shapes. |  | Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter of a circle is twice the radius. | I can identify the circumference, radius and diameter of circles, and know that the diameter is twice the radius. |
| Continue to make and classify 3D shapes, including identifying all of the 2D shapes that form their surface. | I can spot all the 2D shapes on the surface of a 3D shape. |  | Recognise 3D shapes from their nets. | I can recognise 3D shapes from their nets, and can work out which nets will make shapes and which won’t. |
| Identify angles at a point and one whole turn, angles at a point on a straight line and ½ a turn and other multiples of 90°. | I can identify where angles meet at a point and total 360°, and where they lie on a straight line and total 180°. |  | Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. | I can find missing angles at a point or on a straight line. |
| Estimate and compare acute, obtuse and reflex angles. | I can estimate and compare acute, obtuse and reflex angles. |  | Check solutions to missing angle problems by estimating. | I can check answers to missing angle problems by estimating if angles are greater or less than a right angle. |
| Use the properties of rectangles to deduce related facts and find missing lengths and angles. | I can solve problems about the length of sides and angles in rectangles. |  | Find unknown angles and lengths in triangles, quadrilaterals, and regular polygons. | I can solve problems about the length of sides and angles in triangles, quadrilaterals and regular polygons. |
| Continue to use coordinates in the first quadrant and become fluent in their use. | I can reflect shapes on a coordinates grid. |  | Use positions on the full coordinates grid (all four quadrants). | I can plot points and give coordinates in all four quadrants. |
| Identify the points required to complete a polygon. | I can work out missing points on a grid to complete a shape. |  | Draw and label rectangles (including squares), parallelograms and rhombuses specified by coordinates in the four quadrants, predicting missing coordinates using the properties of shapes. | I can work out the coordinates of missing points of a shape in all four quadrants. |
| 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. | I can spot a reflected shape and explain how its ‘shape’ has not changed. |  | Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. | I can draw shapes following reflection or translation on a coordinate grid. |