Year 8	Term 3		
Stage	**Description**		
	Section A Perimeter and Area	**Section B** Angles	**Section C** 3D shapes
Emerging	• Convert between standard metric units of measurement • Know the properties of rectangles • Classify 2D shapes using given categories; e.g. number of sides, symmetry • Recall the names and shapes of special triangles and quadrilaterals	• Know the angle sum of a triangle • Know the angle sum of a quadrilateral • Find missing angles in triangles • Find missing angles in isosceles triangles	• Know the names of basic 3D shapes. • Can identify the parts of a 3D shape i.e. Vertices, Edges and Faces. • Understands the difference between symmetry and rotational symmetry.
Developing	• Can calculate the perimeter of rectangles. • Can calculate the perimeter of triangles and compound shapes.	• Identify fluently angles at a point, angles at a point on a line and vertically opposite angles. • Explain reasoning using vocabulary of angles.	• Know and understand the vocabulary of plans and elevations • Interpret plans and elevations
Secure	• Can calculate areas using the appropriate units of measure for the problem. • Can find compound areas using a combination of shape rules.	• Can name polygons and identify the number of sides each shape has. • Can find missing internal and external angles in specified polygons. • Calculate the number of sides of a polygon.	• Can calculate the volume of a 3D shape. • Can find the total surface area of a cuboid or prism.
Excellence	• Know the connection between speed, distance and time • Solve problems involving speed • Identify when it is necessary to convert quantities in order to use a sensible unit of measure	• Understands and can justify the characteristics of shapes that are congruent.	• Can identify how many and show the planes of symmetry in a cuboid.