



## Year 8

## Term 5

Stage	Description		
	Section A Prerequisites	Section B Angles in parallel lines and polygons	Section C Area of circles and Trapezia
Emerging	<ul style="list-style-type: none"> <li>Can link the use of algebra to shape – finding the area and perimeter.</li> </ul>	<ul style="list-style-type: none"> <li>Can use one and two step function machines when give both inputs and outputs.</li> <li>Can form an expression from a function machine creating the link with variables.</li> </ul>	<ul style="list-style-type: none"> <li>Can substitute into simple expressions to find a value.</li> <li>Can substitute into a formula to find the area of a shape.</li> </ul>
Developing	<ul style="list-style-type: none"> <li>Can use basic angle rules and notation</li> <li>Can identify parallel lines in a diagram</li> <li>Can measure and draw angles with a protractor.</li> <li>Can name different types of triangles.</li> <li>Give the names of polygons.</li> <li>Identify the difference between regular and irregular.</li> <li>Can find the area of rectangles and parallelograms.</li> <li>Can find the area of triangles.</li> </ul>	<ul style="list-style-type: none"> <li>Can identify quadrilaterals from properties.</li> <li>Can identify lines of symmetry in quadrilaterals and other polygons, linking to regularity.</li> <li>Use angle properties (parallel lines facts) to identify quadrilaterals</li> <li>Can find the sum of interior and exterior angles of a polygon.</li> </ul>	<ul style="list-style-type: none"> <li>Can find the area of a trapezium.</li> <li>Can find the area of a compound shape.</li> <li>Can find the circumference of a circle (with &amp; without calculator) – understanding the ratio of diameter: circumference as 1: pi.</li> <li>Can find the area of a circle.</li> </ul>
Secure		<ul style="list-style-type: none"> <li>Can form equations from angles problems.</li> <li>Can find missing angles between parallel lines using transversal vocabulary.</li> </ul>	<ul style="list-style-type: none"> <li>Can identify isosceles vs. non-isosceles trapeziums.</li> </ul>
Excellence		<ul style="list-style-type: none"> <li>Prove geometric facts investigate diagonals of a quadrilateral.</li> </ul>	<ul style="list-style-type: none"> <li>Can proof the area of a trapezium</li> <li>Can find the area of a sector.</li> <li>Can form and solve equations linked with the area.</li> </ul>