

<b>SUBJECT: Foundation Shape, Space and Measure</b>		<b>CURRICULUM PROGRESSION PATHWAYS</b>		<b>CL: Miss Z. Bradshaw and Miss A. Hazell</b>	
KS3 (Level 1)	KS4 (Level 2)	KS5 (Level 3)	Further Education and training	Careers	
→		→		→	
<p><b>Angles</b></p> <ul style="list-style-type: none"> <li>Recognise types of angles such as right angles, acute/obtuse/reflex angles and quarter/half/three quarter turns</li> <li>Draw, estimate and measure angles</li> <li>Calculate angles on a straight line, around a point, vertically opposite and in a triangle</li> <li>Use a compass and protractor to construct triangles accurately</li> </ul> <p><b>2D Shapes/Area/ Perimeter</b></p> <ul style="list-style-type: none"> <li>Identify triangles, squares and rectangles and know their properties</li> <li>Identify lines of symmetry and rotational symmetry</li> <li>Calculate the perimeter of rectangles, triangles and regular polygons and compound shapes made up of rectangles</li> <li>Calculate areas of rectangles and squares</li> </ul> <p><b>3D Shapes/Volume/Surface Area</b></p> <ul style="list-style-type: none"> <li>Name 3D shapes and identify number of faces, vertices and edges. Recognise and draw the nets of cubes and cuboids</li> <li>Calculate surface area and volume of cubes and cuboids by counting and by the formula</li> </ul>	<p><b>Angles</b></p> <ul style="list-style-type: none"> <li>Calculate angles in parallel lines using corresponding, alternate or co-interior angles</li> <li>Find angles sums in polygons and interior/exterior angles in regular and irregular polygons</li> <li>Understand congruency in triangles and complete triangle proofs</li> </ul> <p><b>2D Shapes/Perimeter/Area</b></p> <ul style="list-style-type: none"> <li>Calculate perimeter and area of rectangles, triangles parallelograms and trapeziums.</li> <li>Use area formulas to work backward to find missing lengths</li> <li>Find area and circumference of circles as well as areas and perimeters of sectors</li> <li>Convert between units of area</li> <li>Learnt the parts of a circle</li> </ul> <p><b>3D Shapes/Volume/Surface Area</b></p> <ul style="list-style-type: none"> <li>Calculate surface areas of cuboids and prisms</li> <li>Calculate volume of surface areas of cuboids and prisms</li> <li>Convert between units of volume</li> <li>Use given formulae to find volume and surface areas of cones, spheres and pyramids</li> </ul> <p><b>Transformations</b></p> <ul style="list-style-type: none"> <li>Complete and describe translations using vectors</li> <li>Complete and describe enlargement using a centre</li> <li>Complete and describe rotations</li> <li>Complete and describe reflections (using a mirror line)</li> </ul> <p><b>Right Angled Triangles</b></p> <ul style="list-style-type: none"> <li>Use Pythagoras Theorem to find missing lengths of right angled triangles</li> <li>Use trigonometric ratios to find missing lengths and angles in right angled triangles</li> <li>Know the exact trigonometric values</li> </ul>	<p><b>Core Maths Level 3</b></p>	<ul style="list-style-type: none"> <li>Psychology</li> <li>Business-related courses</li> <li>Sports</li> <li>Social sciences</li> <li>Natural science</li> <li>Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Psychology</li> <li>Business-related courses</li> <li>Sports</li> <li>Social sciences</li> <li>Natural science</li> <li>Engineering</li> </ul>	