

**YEAR 9 THRESHOLD CRITERIA -CYCLE 2**

**MATHS**

	<b>Unit 4</b>	<b>Unit 5</b>	<b>Unit 6</b>
	<b>Advanced Data Analysis</b>	<b>Triangles</b>	<b>Circles</b>
<b>Excellent</b>	<p>Construct box plots</p> <p>Compare data sets through graphs, central tendency and spread</p>	<p>Use trigonometric ratios to calculate missing sides and angles</p> <p>Use triangles to work out exact trigonometric values</p> <p>Plot trigonometric graphs</p> <p>Solve trigonometry problems in 3D</p>	<p>Recall and use circle theorems in complex problems</p> <p>Prove circle theorems</p>
<b>Proficient</b>	<p>Work out which class contains the median value in grouped data</p> <p>Construct cumulative frequency graphs</p> <p>Work out interquartile range</p>	<p>Use Pythagoras' theorem to decide if a triangle is right angled</p> <p>Use a calculator to work out exact trigonometric values</p> <p>Solve Pythagoras problems in 3D</p>	<p>Work out areas of semi circles and quadrants</p> <p>Work out the area of sectors and lengths of arcs and perimeters of sectors</p> <p>Recall and use circle theorems in simple problems</p>
<b>Developing</b>	<p>Estimate the mean of grouped data by using midpoints</p> <p>Construct frequency polygons</p>	<p>Identify the hypotenuse on right angled triangles</p> <p>Use Pythagoras' theorem</p>	<p>Work out radius or diameter when given the circumference</p> <p>Work out circle area by using the formula</p>
<b>Acquiring</b>	<p>Identify the modal class from a frequency table</p> <p>Work out midpoints of class intervals</p> <p>Work out the range of grouped data</p>	<p>Identify different types of triangles</p> <p>Use angle facts to work out missing angles in triangles</p>	<p>Identify and define parts of circles</p> <p>Work out circumference by using the formula</p>