



## KS4 Learning Overview

### Maths (Foundation Tier)

#### Exam Board: Edexcel

Year 10		
Term	Topics	Extra learning opportunities
Autumn 1	<ul style="list-style-type: none"> <li>Perimeter &amp; area</li> <li>3D forms &amp; volume</li> <li>Real-life graphs</li> </ul>	<p><b>Research task:</b> Area of land is measured in acres. What is an acre?</p> <p><b>Research task:</b> What is a frustum?</p>
Autumn 2	<ul style="list-style-type: none"> <li>Straight-line graphs</li> <li>Transformations</li> </ul>	<p><b>Research task:</b> Who was Rene Descartes? What was his contribution to geometry?</p>
Spring 1	<ul style="list-style-type: none"> <li>Ratio</li> <li>Proportion</li> <li>Right-angled triangles: Pythagoras &amp; trigonometry</li> </ul>	<p><b>Research task:</b> What is the Golden Ratio and where can it be found in everyday life?</p> <p><b>Research task:</b> What is a Pythagorean Triple? Find 3 examples.</p>
Spring 2	<ul style="list-style-type: none"> <li>Probability</li> </ul>	<p><b>Research task:</b> Who conceived the Venn diagram and when?</p> <p><b>Research task:</b> What is the probability of winning the EuroMillions jackpot? How is this calculated?</p>
Summer 1	<ul style="list-style-type: none"> <li>Multiplicative reasoning</li> <li>Plans &amp; elevations</li> </ul>	<p><b>Research task:</b> Find three professions that may need to use plans and elevations.</p>
Summer 2	<ul style="list-style-type: none"> <li>Constructions, loci &amp; bearings</li> </ul>	<p><b>Research task:</b> What is the Angle Trisection Problem?</p>