

<b>Curriculum Rationale</b>	
<b>Subject</b>	<b>Core Maths</b>
	<b>Key Stage 5</b>
<p><b>Intent</b></p> <p><i>"No employment can be managed without arithmetic, no mechanical invention without geometry."</i> <i>Benjamin Franklin</i></p> <p>Maths is incredibly important in our lives; we use mathematical concepts, as well as the skills we learn from doing maths problems, every day. The laws of mathematics govern everything around us, and without a good understanding of them, one can encounter significant problems in life.</p> <p>At Key Stage 5, our Core Maths students will look at applying GCSE content to real life industries to inform decision making. They will also look at elements of personal finance and company finance as well as loans, credit cards, taxation and savings. They will also be introduced to new data handling skills.</p> <p>The key focus of the course is to take calculations and make informed decisions based on the answers.</p>	
<p><b>Implementation</b></p> <p><i>"The book of nature is written in the language of Mathematics."</i> <i>Galileo</i></p> <p>We teach our students through a variety of methods and approaches. We regularly use group and pair activities as well as taking time to incorporate many opportunities for independent learning. Activities include the use of mini white boards, printed resources, text book and online resources, abstract problems alongside clear modelling and questioning. Taking full advantage of the resources we have in the department, all lessons are differentiated to ensure every student is supported and challenged as necessary.</p> <p>In Key stage 5 the students will have regular assessments on units from the scheme of work, as well as using past and practice papers to gauge the grade they are tracking towards and which topics or exam skills they can work on to move them towards a higher grade.</p> <p>One of the papers in the Core Maths examination is shared with the students a month before the exam to enable them to prepare for how they intend to use the data.</p>	
<p><b>Impact</b></p> <p><i>"I have had my results for a long time: But I do not yet know how I am to arrive at them."</i> <i>Carl Friedrich Gauss</i></p> <p>We expect that our students will gain a confidence in their own mathematical interest and develop a curiosity for mathematics that will encourage some of our students to study the subject beyond their time at LeAF Studio.</p> <p>We expect all of our students to achieve their target grade at the end of Year 13.</p> <p>We also expect our students to be in a position to use the knowledge of mathematics alongside their chosen specialism to help further their careers.</p>	