






	Maths
<b>Vision</b>	Maths is fundamental in education and society. Our aim is to ensure that all pupils are equipped for the demands of adulthood and the world of work, apprenticeships or further education.
<b>Philosophy</b>	Our ethos, therefore, is for all pupils to develop secure building blocks for the development of mathematical understanding and have the ability to allow them to confidently deal with numerate situations in their future lives – this includes calculations, analysis of data, reasoning and problem solving.
<b>Intent – our curriculum design principles and what we intend for the young people to learn:</b>	As with all our subjects at TDPC, we base our curriculum design around the following principles: <ol style="list-style-type: none"> <li>1. Feeling successful</li> <li>2. Broadening horizons</li> <li>3. Oracy opportunities</li> <li>4. Applying core skills</li> <li>5. Disciplinary thinking</li> </ol>
<b>Feeling successful</b> 	<p>To foster an enjoyment and confidence in Maths using a variety of teaching methods.</p> <p>To explore topics with students and work with them to develop their problem-solving techniques to enable them to better deal with numerate situations in the future, linking where possible, with other areas of the curriculum to underpin the theoretical understanding of Maths with its practical applications. The impact on our pupils is clear progress, sustained learning and transferable skills, enabling pupils to become literate in numeracy, which supports financial independence.</p>
<b>Broadening horizons</b> 	<p>At KS3, pupils are taught the necessary maths skills to prepare them for their GCSE Maths and to prepare them to be confident in everyday situations which require numeracy.</p> <p>Students will develop an understanding how other cultures have contributed towards the development of mathematical knowledge over time.</p>
<b>Oracy opportunities</b> 	<p>Students will be encouraged to explore their understanding of Maths through questioning and explaining their thought processes whilst tackling activities. Students will be encouraged to use the subject specific language they have learned in their explanations.</p> <p>Students will recognise the importance of speaking clearly and fluently and the need for turn-taking during any oracy based activities</p>
<b>Applying core skills</b> 	<p>Students will:</p> <ul style="list-style-type: none"> <li>• be encouraged to develop independent thinking through problem solving.</li> <li>• be encouraged to be tenacious in their maths problem solving.</li> <li>• have opportunities to grow in their fluency of basic everyday mathematical concepts across all areas of the curriculum.</li> <li>• understand links with other curriculum areas as appropriate - including date handling and equations in science.</li> </ul> <p>Students will have the opportunity to explore budgeting and applying the mathematical skills they have learned to everyday situations. They</p>

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	will be encouraged to record ideas in a variety of ways, including diagrams, photos and annotations.
<b>Disciplinary thinking</b> 	Encouraging students to think like mathematicians includes developing the ability to analyse problems, apply mathematical concepts, reason logically and communicate mathematically; these types of thinking are crucial for developing strong problem-solving and critical thinking
<b>Implementation – how we teach our intent:</b>	We are ambitious for all our pupils to access learning, so lessons are planned to include those who will need more scaffolding and others who require a greater challenge. In order to achieve our ambitions, we use differentiated questioning and resources as well as creating individual learning programmes for those who will benefit from additional support.
<b>Accreditation</b>	<p>At TDPC we deliver a range of qualifications in Maths that reflect the level the young person is working at; there are opportunities for young people to do GCSE Maths, Maths at Entry Level or AQA Unit Awards which are tailored to individual interests.</p> <p>We deliver the Pearson syllabus for both GCSE and Entry Level Maths. AQA Unit Awards are offered from Entry Level 3 to Level 1</p>