

Maths

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Key Stage 3 Leader: Miss R Gilbertson rgilbertson@taptonschool.co.uk

Curriculum Intent: We build confidence with mathematical reasoning which is essential for everybody's future. We ensure that all students have the mathematical fluency, reasoning, and problem-solving skills to not only excel in assessments, but to fulfil their hopes and dreams in the world beyond. We motivate, challenge, and inspire a very able cohort, whilst supporting and nurturing students who lack confidence and those that struggle with Mathematics. We deliver a curriculum which allows students to achieve the best they can.

Core Knowledge	Procedural Knowledge
<p>Topics:</p> <p>Number</p> <p>Algebra</p> <p>Ratio,</p> <p>Proportion & rates of change</p> <p>Geometry & measures</p> <p>Probability</p> <p>Statistics</p>	<p>Students will:</p> <p>Become fluent in the basics of mathematics</p> <p>Be able to reason how and why the mathematics works (or doesn't sometimes)</p> <p>Be able to apply their mathematics to solve problems which are both abstract and from the real world</p> <p>Apply mathematical knowledge in Science, Geography, Computer Science and other subjects.</p>

Homework:
 Weekly homework is set using predominantly Mathswatch & sometimes Dr Frost to practise the skills learnt that week.
 Revision tasks are also set as homework to prepare for the two main assessments.

Assessment:
 There are two main formative assessments during the year, assessing the skills taught and the student's ability to apply the skills to problem solving.
 Assessment for learning during lessons is key to assessing students informally every Maths lesson so teaching is tailored to the students.

Links to Personal Development:
 Mathematical knowledge, skills and their application to problem solving is key and requires resilience and the willingness to make mistakes and learn from them.
 The curriculum is linked to the real world wherever possible.
 We make cross curricular links with Science, Technology, Geography, Food wherever possible.
 We support students to get the best grades that they can, so they have as much career choice as possible.

How is my knowledge further developed in Year 8?
 KS 3 is the first 3 years of a 5-year curriculum of which the last 2 years are GCSE Maths.
 GCSE Maths content builds on all the skills learnt in KS3.