

Maths

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Key Stage 3 Leader: Miss R Gilbertson

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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 all learners, while providing support to those who may lack confidence in the subject. We deliver a curriculum which allows students to achieve their full potential.

Core Knowledge

Topics:

Number

Algebra

Ratio

Proportion & rates of change

Geometry & measures

Probability

Statistics

Procedural Knowledge

Students will:

Become fluent in the basics of mathematics.

Be able to reason how and why the mathematics works (or doesn't sometimes).

Be able to apply their mathematics to solve problems which are both abstract and from the real world.

Apply mathematical knowledge in Science, Geography, Computer Science and other subjects.

Homework:

Weekly homework is set using predominantly MathsWatch and 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 problems.

Assessment for learning is used in every Maths lesson to check understanding of prior learning and new content, to address misconceptions and to adapt teaching to students' needs.

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 and 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?

Key Stage 3 is the first three years of a 5-year curriculum of which the last two years are GCSE Maths. GCSE Maths content builds on all the skills learnt in Key Stage 3.