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Year 9 Curriculum Information Evening

Subject: Mathematics

Subject Leader: Miss N Thompson

What you will learn

The maths GCSE course builds on the topics and skills explored in KS3 and fall into roughly 5 key areas:

- Number
- Ratio and Proportion
- Algebra
- Geometry
- Probability and Statistics

Along with this maths will look to build on problem solving skills that are invaluable in the modern workplace.

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How you will be assessed

The maths GCSE is tiered with the Foundation tier accessing grades 1-5 and the Higher tier accessing grades 4-9. Both tiers are assessed through three equally weighted exam papers.

- Paper 1 – Non-calculator paper 1.5 hours and 80 marks
- Paper 2 – Calculator paper 1.5 hours and 80 marks
- Paper 3 – Calculator paper 1.5 hours and 80 marks

Any of the topics can appear on any of the papers. Along with this the students will also be expected to memorise and use a number of formulae.

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Why study maths

Maths is a rich and varied subject that takes not only logical thought but also a high level of creativity.

It is the language of the universe and underpins all processes in the natural world.

Maths has a intrinsic beauty, and studying it helps develop the appreciation of the subject.

Two of the key employability skills are numeracy and problem solving both of which are developed throughout the maths GCSE.

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Post 16 Opportunities

Mathematics A level is highly desirable to employers even if you do not want to pursue a career in maths. This is due to the “soft” skills maths develops such as problem solving, reasoning, independent thought and resilience.

Any students wishing to study subjects that have high levels of mathematics will benefit from maths A level.

e.g. Engineering, Physics, Computer Science, Chemistry, Economics, Accountancy, Biology

Research has shown that students with an A level in maths can receive up to 10% more pay than their peers without maths.

Most level 3 College courses will need a grade 4+ in maths to access the course, as well as many apprenticeships that are available.

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Questions

