

MATHEMATICS

GCSE

INTRODUCTION

Mathematics is a compulsory subject at Key Stage 4 providing an important foundation for employment, further study and is a requirement for many university courses.

Material covered in the course is broad and deep and will develop the ability to solve challenging problems whilst helping with better preparation for studying mathematics at A Level. Students will follow the Edexcel GCSE (9 - 1) mathematics specification with written assessment papers at the end of Year 11. To take account of the increased content at both higher and foundation tier, the delivery of the GCSE course begins in Year 9 and builds on the content, knowledge and skills developed in the Key Stage 3 programme of study for mathematics.

WHAT WILL I LEARN?

The GCSE Mathematics content has been divided into six main domains:



- Number
- Algebra
- Ratio, proportion and rates of change
- Geometry and measures
- Probability
- Statistics

As well as subject content the course provides opportunities to:

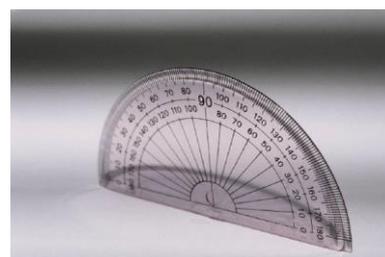
- Acquire, select and apply mathematical techniques to solve problems
- Reason mathematically, make deductions and inferences and draw conclusions
- Interpret and communicate mathematical information in a variety of forms appropriate to the information and context

ENTRY REQUIREMENTS

All students will follow the National Curriculum in Mathematics. Performance in Year 9 will determine the mathematics set in Year 10, and consequently whether the Higher Tier specification or the Foundation Tier specification is followed. Regular internal assessments are made throughout the course and set changes are made as necessary.

HOW WILL I BE ASSESSED?

- Three written papers; externally assessed at the end of the course, i.e. in May/June of Year 11
- Each paper is 1 hour 30 minutes long and has 80 marks
 - Paper 1 non-calculator
 - Paper 2 calculator allowed
 - Paper 3 calculator allowed
- Tiered Papers
 - Foundation Tier: Grades 5 to 1
 - Higher Tier: Grades 9 to 4



FUTURE OPPORTUNITIES

GCSE Mathematics provides progression to Level 3 qualifications in numerate subjects, such as AS-Level Mathematical Studies (Core Mathematics), A-Levels in Mathematics, Further Mathematics and Science subjects. GCSE Mathematics also supports other qualifications, and further training and employment where mathematical skills, knowledge and understanding are needed or desirable.

FURTHER INFORMATION

For further details contact Mr Iddrisu, Assistant Headteacher and Head of Mathematics.