

## AQA Core Maths (Level 3 Mathematical Studies)

### Why study Core Maths at The Sixth Form at Ridgewood?

- Core Maths is an additional qualification to go alongside your three other A level options. This will help you stand out as it is an extra qualification on top of what other students may have.
- Core Maths is a qualification for those who want to keep up their valuable maths skills but are not planning to take AS or A level Maths.
- You will be taught by a strong team of maths teachers who are trained to deliver Core Maths.
- Students at Ridgewood have said that the support they receive from the maths team is exemplary.
- We are always willing to spend time with you to help you if you are struggling. We offer a weekly support session after school.

### What topics will I study in this subject?

Topic	What this means
Analysis of Data	You will be expected to develop and demonstrate confidence and competence in the understanding and application of statistical techniques, interpreting data and drawing conclusions in the solution of problems.
Personal Finance	You will be expected to develop and demonstrate confidence and competence in the understanding and application of maths relating to personal finance.
Estimation	You should become familiar with and gain confidence in ideas concerning the formulation of mathematical models.
Critical Analysis of given data and models	You will be expected to use data and models you are given and to be mathematically critical of these.

### What skills will I need in this subject?

Skill	What this skill involves in this subject
Use and apply standard techniques	<ul style="list-style-type: none"> <li>• Accurately recall facts, terminology and definitions</li> <li>• Accurately carry out set tasks in contexts requiring single- and multi-step solutions</li> </ul>
Solve problems in a context and analyse data	<ul style="list-style-type: none"> <li>• Select the maths required to solve a problem</li> <li>• Analyse data and/or given information in order to draw conclusions</li> <li>• Represent situations mathematically</li> </ul>
Solve problems where the method is not obvious and communicate processes and results	<ul style="list-style-type: none"> <li>• Devise strategies to solve problems where the method is not obvious</li> <li>• Make realistic assumptions to enable solutions to be obtained</li> <li>• Evaluate the reasonableness of a solution</li> <li>• Communicate clearly using appropriate mathematical notation, language and diagrammatic representation</li> </ul>

## What will my lessons involve?

- Teaching for Core Maths consists of nine one hour lessons over two weeks.
- Lessons usually consist of teacher-led examples followed by questions set for you to complete as an individual or as part of a group when appropriate
- Questions set in lessons will vary from practising key skills, using written reasoning to fully justify answers, problem solving, and using maths within unfamiliar contexts
- Lessons will also be used to complete improvements on set independent learning or exam papers

## What will my independent study involve?

- You are set independent study to compliment what you have learnt in lesson and you are expected to complete independent study on topics you need more practice on
- In general, you are set one/two hours of independent study
- Once the course content is complete, you will be given an exam paper each week to help practise your exam technique

## How will I be assessed?

Percentage exam assessment: 100%

Percentage coursework assessment: 0%

Assessment	Details of assessment
Paper 1 – Compulsory Content	Two one and a half hour exam papers at the end of Year 12. Each exam paper consists of 60 marks and will make up half of your overall grade.  One exam paper with a mix of question styles from short, single mark questions to multi-step problems. You will be given preliminary material to help prepare for this paper.
Paper 2 – Optional Content	One exam paper with a mix of question styles from short, single mark questions to multi-step problems. You will be given preliminary material to help prepare for this paper and be expected to draw on the mathematical content from Paper 1.

## How do I know this is the right course for me?

- Core Maths is a qualification for those who want to keep up their valuable maths skills but are not planning to take AS or A level Maths.
- Study this course if you want to develop valuable real-life skills, to understand mathematical information, and make better informed decisions.
- Core Maths supports the understanding of maths in other A level subjects such as Geography, Social Sciences and Business.

