

## **Mathematics- Exam Board: AQA**

### **Subject Overview (coursework/exam split, timings, weightings etc.):**

Maths at A Level has no coursework element. The final grade at the end of Year 13 is awarded solely from performance in 3×2 hour (equally weighted) calculator papers, each out of 100 marks. The grade is awarded using the grade boundaries depending on your total score out of 300.

At Rainford, we have structured the course so that the whole of the AS Level Maths content is covered in Year 12. The exam structure for end of Year 12 exams will be AS papers which are assessed as follows:-

- **100% Examination - two equally weighted papers, both with a calculator.**
- **Each paper is out of 80 marks and lasts 1 hour 30 minutes.**
- **Paper 1 is Pure Maths and Mechanics & Paper 2 is Pure Maths and Statistics.**
- **The Pure Maths content is  $\frac{2}{3}$  of the marks with Mechanics and Statistics  $\frac{1}{6}$  each.**

### **Key Topics for Y12 Examinations Summer 2021:**

#### **Paper 1**

##### **What's assessed**

Content from the following sections:

- A: Proof
- B: Algebra and functions
- C: Coordinate geometry
- D: Sequences and series
- E: Trigonometry
- F: Exponentials and logarithms
- G: Differentiation
- H: Integration
- J: Vectors
- P: Quantities and units in mechanics
- Q: Kinematics
- R: Forces and Newton's laws

##### **How it's assessed**

- Written exam: 1 hour 30 minutes
- 80 marks
- 50% of AS

##### **Questions**

A mix of question styles, from short, single-mark questions to multi-step problems.

## Paper 2

### What's assessed

Content from the following sections:

- A: Proof
- B: Algebra and functions
- C: Coordinate geometry
- D: Sequences and series
- E: Trigonometry
- F: Exponentials and logarithms
- G: Differentiation
- H: Integration
- K: Statistical sampling
- L: Data presentation and interpretation
- M: Probability
- N: Statistical distributions
- O: Statistical hypothesis testing

### How it's assessed

- Written exam: 1 hour 30 minutes
- 80 marks
- 50% of AS

### Questions

A mix of question styles, from short, single-mark questions to multi-step problems.

### Useful websites:

- **Exam board (AQA):** [AQA](#) | [Mathematics](#) | [AS and A-level](#) | [Mathematics](#)
- **Rainford Connect:**  
There is a dedicated 'revision' section with revision notes and links to useful web sites such as Maths Genie and Jack Brown revision videos. There are also topic tests and past papers in their respective sections. Everything mentioned here is uploaded to or linked to on Connect.  
[Course: A Level Maths \(new specification from 2017\) \(rainford.org.uk\)](#)

### Useful resources:

- A Level Maths Textbook on [www.kerboodle.com](http://www.kerboodle.com)
- Revision notes for AS Pure Maths, AS Mechanics and AS Statistics from Maths Box (see revision section on Connect).
- AQA and Kerboodle Topic Tests (see topic test section on Connect).
- Past exam papers, practice and specimen papers (see Connect).

### Useful revision tips and specific revision and preparation guidance:

- Make your own revision notes / flash cards using the AS Revision Notes on Connect.
- Try answering questions grouped by topic using either Topic Tests or questions on the Maths Genie web site. Start by working on the topics you are least confident with first.
- Use Jack Brown's videos for extra examples.
- Move on to trying whole AS papers and as you get better, remember to also stick to about a mark per minute.
- Use the official mark schemes for papers to check your work and also to become familiar with the detail you need to show, for example on questions that say "fully justify..." or "show that...."

- If you need extra help or support, just ask.