

A-Level Preparation into the Sixth Form 2026

Mathematics

Preparation for A-Level Mathematics

To successfully tackle the challenges of A-Level Mathematics, it is important to be well-prepared. You are expected to have a solid grasp of a number of key skills that you will have learned during your GCSE course, as these will be essential throughout both Year 12 and Year 13 Mathematics.

To ensure the best possible start to your A-Level course, you must have a secure understanding of the following GCSE topics. You should practise these topics by completing the Summer Homework and self-marking your work using the provided answers. These can be found by clicking here:

- [Mathematics Summer Homework](#)
- [Mathematics Summer Homework Answers](#)

Topics to Review:

1. Law of indices
2. Straight line graphs
3. Algebraic fractions
4. Manipulating algebraic expressions
5. Changing the subject of a formula
6. Linear equations, inequalities and simultaneous equations
7. Solving quadratic equations
8. Graphs –sketching and recognising common graphs
9. Transformations of graphs
10. Trigonometry
11. Vectors
12. Statistics
13. Probability

Textbooks needed for A-Level Mathematics

Needed from 1st September

- Pearson Edexcel AS and A level Mathematics Pure Mathematics Year 1/AS
Textbook - ISBN - 978-1292183398
- Edexcel AS and A level Mathematics Statistics & Mechanics Year 1/AS
Textbook - ISBN - 978-1292232539
- Pearson Edexcel A level Mathematics Pure Mathematics Year 2 Textbook -
ISBN - 978-1292183404

Needed from after Easter of Year 12

- Pearson Edexcel A level Mathematics Statistics & Mechanics Year 2 Textbook
ISBN - 978-1446944073