



WHY STUDY MATHEMATICS AT HGS?

- **The largest A Level subject at HGS**, following the Edexcel specification
- **A bespoke curriculum written by our department**, with every booklet on hgsmaths.com and access to Pearson textbooks
- **TMUA, STEP and interview preparation** within the taught curriculum, which very few schools provide
- **Our strongest students achieve A* grades** and progress to leading Mathematics, Computer Science and Engineering degrees



COURSE AT A GLANCE

Grade 7+

GCSE Mathematics required

11

lessons a fortnight

3

final examinations

2026 RESULTS

A LEVEL MATHEMATICS

40% Grade A*–A

60% Grade A*–B

81% Grade A*–C

98% Grade A*–E



THE RIGHT REASONS

GOOD REASONS

"I really enjoy mathematics"

"I enjoy a challenge"

"My algebra is strong"

"My degree requires it"

POOR REASONS

"My parents told me to"

"My friends are taking it"

"I like the teachers"

"It keeps my options open"

ESSENTIAL FOR DEGREES IN

**Mathematics · Physics · Engineering
Computer Science · Economics**

It is also advantageous for Medicine, Chemistry, Biology, Psychology and Finance

WHY WE REQUIRE GRADE 7

GCSE	A*	A	B	C	D or below
Grade 9	45%	37%	11%	5%	2%
Grade 8	7%	29%	25%	21%	17%
Grade 7	1%	9%	15%	26%	49%

A Level grades of all Edexcel students in 2019, by GCSE grade

TRY THESE PROBLEMS

If you enjoy these, A Level Mathematics may be for you.

Solve
$$\frac{20x^4y^2z^3}{7xy^5} \times \frac{14y^3}{40x^2z^3} = 5$$

Evaluate
$$5 \left(5 \left(\frac{\sqrt{5} + 5}{5} \right) \div 5^{5^5 - 5} \right) - \sqrt{5}$$

