



Mathematics

Staff delivering: Miss Dunn & Miss Mawer

Topics/Units studied:

Mathematics is 100% specified by the DfE and comprises of:

- **Pure** - Proof, Algebra and Functions, Coordinate Geometry, Sequences and Series, Trigonometry, Exponentials and Logarithms, Differentiation, Integration and Vectors.
- **Statistics** - Statistical Sampling, Data Presentation and Interpretation, Probability, Statistical Distributions and Statistical Hypothesis Testing.
- **Mechanics** - Quantities and Units in Mechanics, Kinematics and Newton's Laws.

Key dates & deadlines:

| | | | |
|------------|------------------------|-----------------------|---------|
| A2 Paper 1 | Pure 1 | 3 rd June | 2 hours |
| A2 Paper 2 | Pure 2 | 10 th June | 2 hours |
| A2 Paper 3 | Statistics & Mechanics | 12 th June | 2 hours |

Career Pathways:

Actuary, Air Traffic Control Analyst, Banking, Civil Engineer, Computer Scientist, Cryptologist, Data Scientist, Ecologist, Economist, Environmental Mathematician, Geophysical Mathematician, Investment Banking, Mathematics Teacher, Operations Research Analyst, Physician, Research Scientist, Software Engineer, Robotics Engineer, Statistician.

Success

The Mathematics department have had consistently good results for over 5 years and have achieved grades placing Holderness Academy in the top 10% Nationally for A-Level Mathematics.

2019 Results

A*-A 25%

A*-E 100%

2018 Results

A*-A 40%

A*-D 100%

2017 Results

A*-A 27%

A*-D 100%

2016 Results

A*-A 38%

A*-D 100%

Progression

An A-Level in Mathematics is useful for the following degree courses

- Accountancy
- Architecture
- Banking
- Biochemistry
- Biomedical Sciences
- Business Studies
- Computing
- Dentistry
- Dietetics
- Finance
- Geography
- Geology
- Insurance
- Management Studies
- Physical Education
- Physiotherapy
- Psychology
- Sports Science
- Surveying

An A-Level in Mathematics is essential for the following degree courses

- Actuarial Science
- Actuarial Studies
- Aeronautical Engineering
- Chemical Engineering
- Chemistry
- Economics
- Electrical Engineering
- Environmental Sciences
- Material Sciences
- Mechanical Engineering
- Medicine
- Optometry
- Pharmacy
- Physics
- Teacher Training
- Veterinary Science

