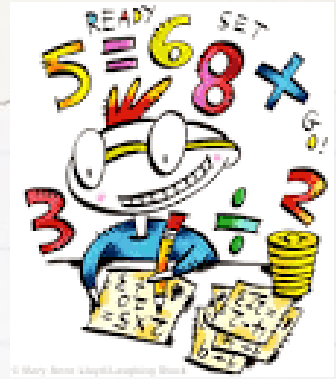
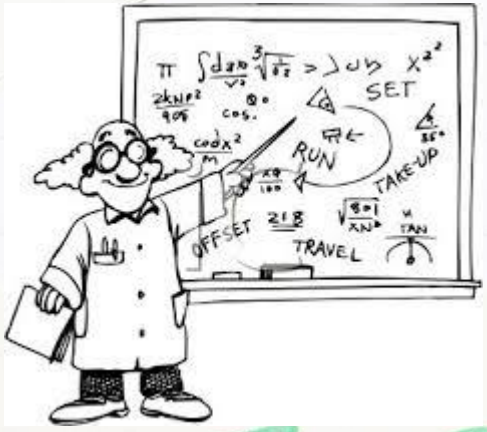


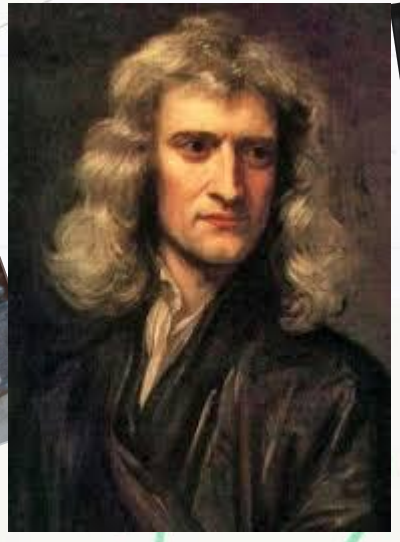
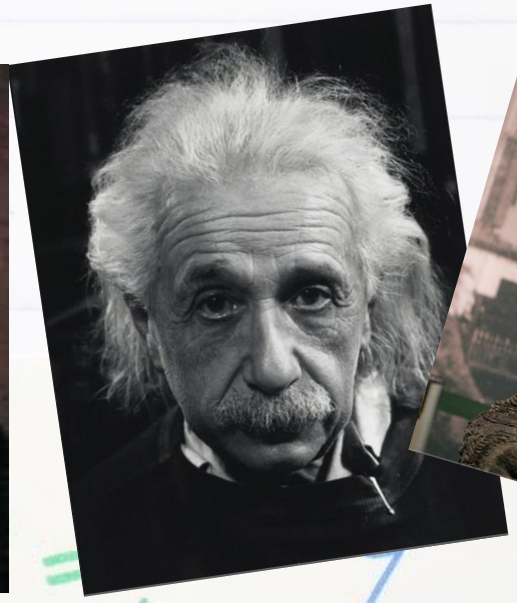
A Level Mathematics



Humanity needs Mathematicians

Just look around.

Some of civilization's most prized and proud achievements are wholly reliant on Mathematics.


What subjects go with maths?

According to the Russell Group informed choices guide, Maths is a “facilitating” subject which means that it will help you to study lots of other subjects and pursue lots of different careers.

Maths helps supports the study of subjects like physics, chemistry, engineering, IT, economics, business and biology

Studying maths alongside essay-based subjects like English or history can help keep your options open for more jobs and uni courses

What degrees need maths

- Maths A-level is a must have for degrees in: physics, engineering, actuarial science, economics and, of course, maths
- Maths is recommended or sometimes required for: computer science, accounting, chemistry, biology and life sciences, medicine/nursing, dentistry, business studies, management studies, finance, architecture, geology, psychology, surveying and even philosophy.
- Some subjects, like medicine, require two out of this common gang of four subjects: maths, physics, chemistry and biology.

Potential for joint courses

Mathematics is a reasonably neutral subject and so it is easily combined with other courses.

Mathematics and History

Mathematics and English

Mathematics and Spanish,

Mathematics and Music

These are but a few of the increasingly broad range of Mathematics based courses available.

A Mathematics degree does not have to be purely numerical, but can involve the arts to offer literary, musical or scientific nourishment.

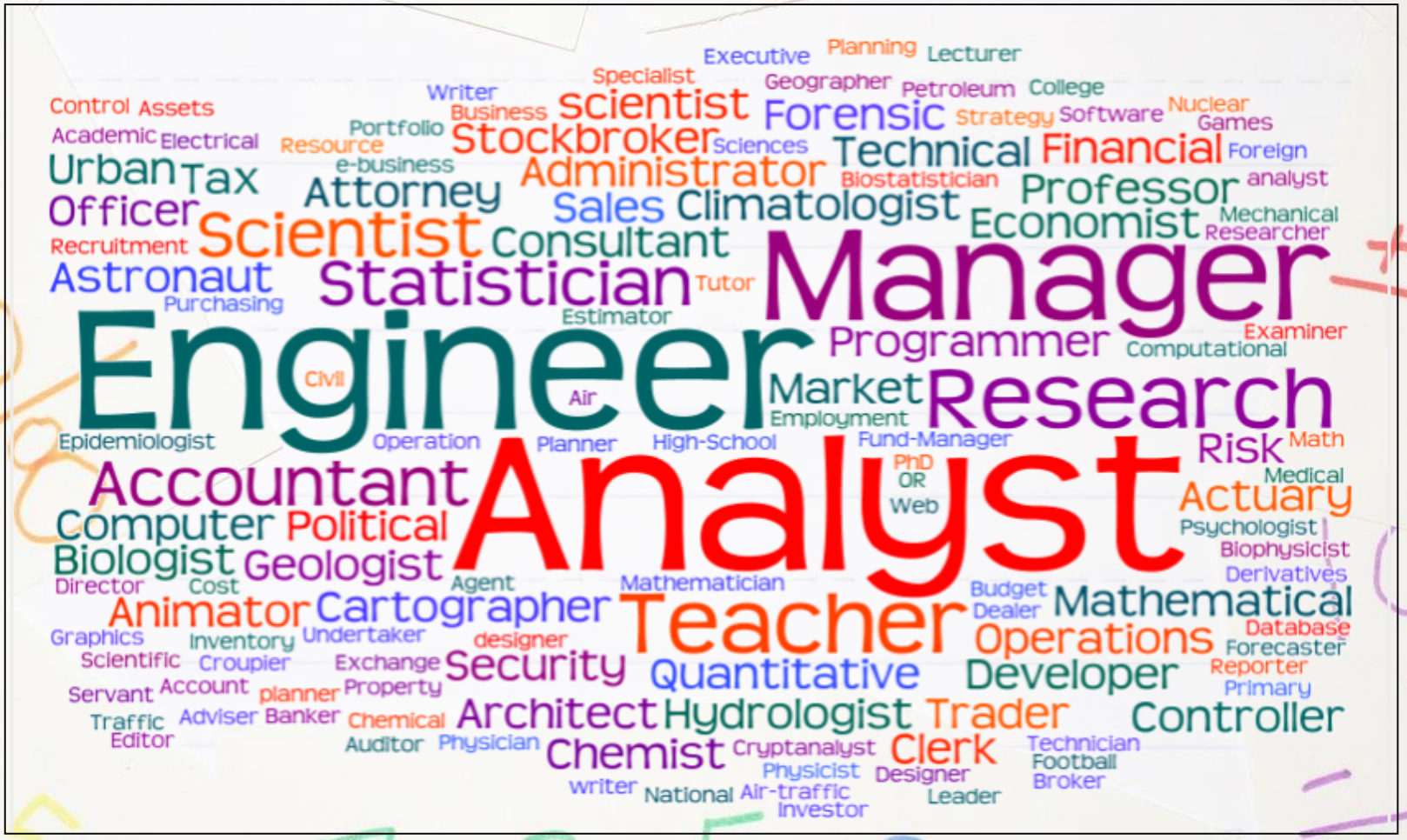
Salary Advantages

Whatever your career ideas, earning potential is always worth considering.

Passing a STEM subject at A Level (Science, Technology, Engineering or Maths) can give you a salary advantage of 15% over those who don't?

So, your job prospects are boosted already, whether or not you decide to do a degree

Other career opportunities?



A Level Mathematics at St Francis of Assisi

- Follows the Edexcel course
- Split into Core and Applied
- Examined by three papers at the end of Year 13
  - Core paper 1: 2 hours and worth 33.33%
  - Core paper 2: 2 hours and worth 33.33%
  - Applied paper: 2 hours and worth 33.33%

Core Mathematics

- Topic 1 – Proof
- Topic 2 – Algebra and functions
- Topic 3 – Coordinate geometry
- Topic 4: Sequences and Series
- Topic 5: Trigonometry
- Topic 6: Exponentials and logarithms
- Topic 7 Differentiation
- Topic 8: Integration
- Topic 9: Numerical Methods
- Topic 10: Vectors
- Topic 11 – Parametric functions

Applied Mathematics

Statistics

- Topic 1: Statistical sampling
- Topic 2: Data presentation and interpretation
- Topic 3: Probability
- Topic 4: Statistical distributions
- Topic 5: Statistical hypothesis testing

Applied Mathematics

Mechanics

- Topic 6: Quantities and units in mechanics
- Topic 7: Kinematics
- Topic 8: Forces and Newton's laws
- Topic 9: Moments

Last years results

Average Grade achieved was a Grade B

55% of students gained a Grade A* or A

67% of students gained a Grade A*- B

78% of students gained a Grade A*- C

All students who sat the examination gained a Grade

Uptake

A Level Mathematics is the second most popular subject at SFA

Current Year 13 has 26 students

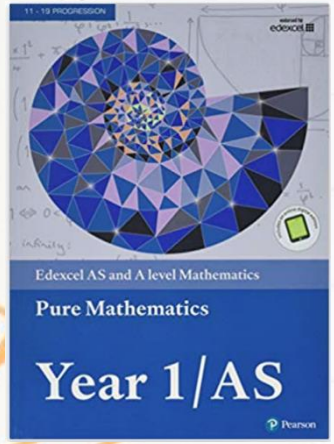
Current Year 12 has 35 students

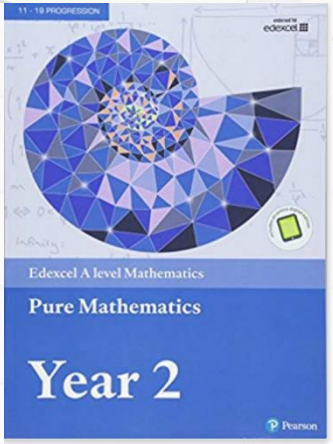
Requirements

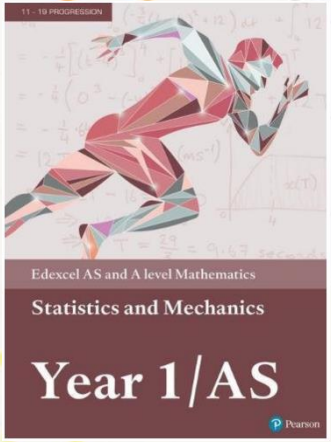
To study A Level mathematics you will need a Grade 7

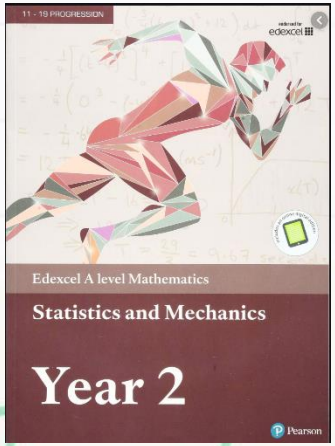
The course is very challenging and you will need to be very confident with the Higher GCSE content especially the algebra topics

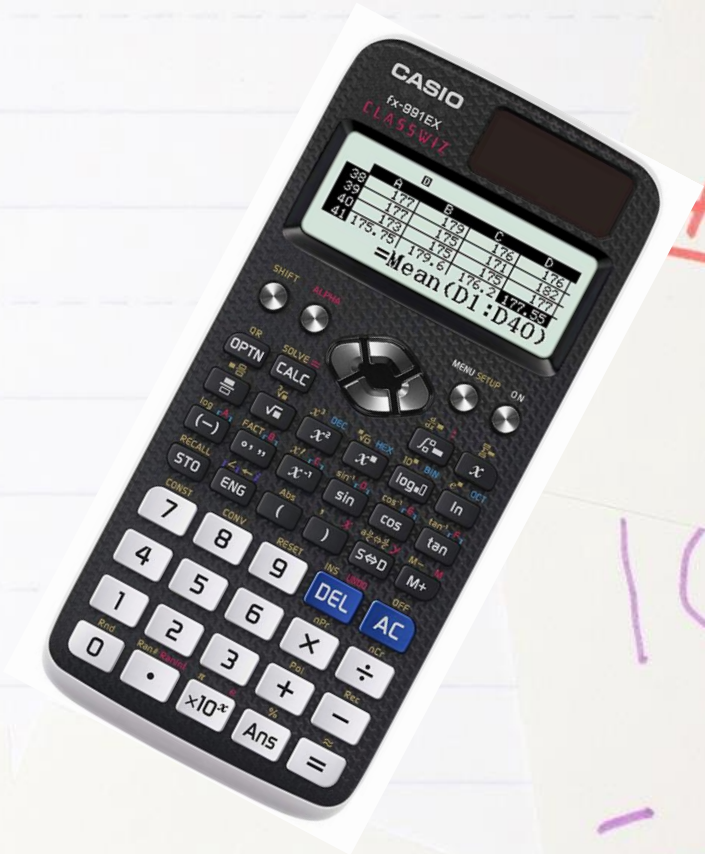
What you will need











Any questions?