



Maths at Bury College

An introduction to help you be ready for
GCSE/ Functional Skills maths at Bury
College

Serving the community through education and training



Maths at Bury College

- The government state that ANY student who hasn't achieved a grade 4/C in English and maths MUST continue to study towards this grade until they leave either full-time education or an apprenticeship.

Why?

- Students who gain their English and maths grade 4/c will, on average, earn over £80,000 more in their lifetimes than those who don't have English and maths qualifications at this level.
- Many popular jobs and careers require English and maths grade 4/C – including nursing, teaching and the police service.
- Bury College has excellent results for English and maths progress.

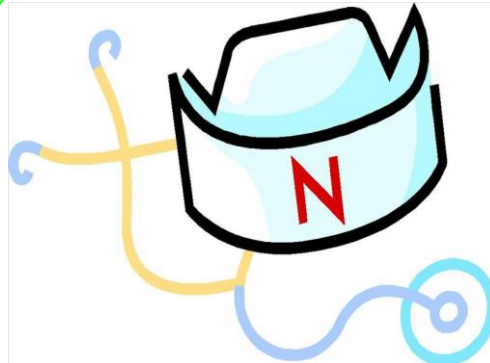


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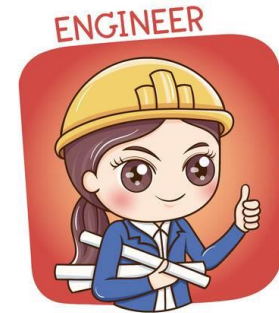
Careers and Maths



Radiologists use lots of geometry. They need to be able to describe shapes and sizes of organs, areas of the body or any noticeable shapes. Number skills are also important to track changes in X-rays.



Nurses use addition, subtraction, multiplication and division when working out the right dose of medication for a patient or checking their fluid input and output (how much water a person takes in and how much they lose through urine or sweat).



Engineers use ratio and proportion to make models of a design to test if the design is good and lucrative.

Careers and Maths



Hair stylists need to understand angles, lengths and shapes when cutting hair to select the right developer and measure the right proportion of products. Understanding volume and ratio is also essential.



Software developers use algebra, calculus, geometry, trigonometry, mathematical logic, statistics and other maths skills.



Construction workers use ratio to construct buildings from architectural blueprints. For example, it's important to get the proportions right between the height and length of a roof. To do that, building professionals divide the length by the height to get the correct ratio.

Equipment for the Course

Protractor

Sharpener

Eraser

What you
need

Pencil

Ruler

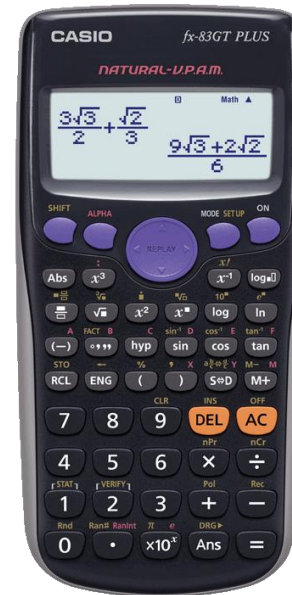
Calculator

Pen

Compasses

Calculator

- Your calculator from GCSE maths is fine!
- Any calculator that does:
 - x^2 and \sqrt{x}
 - sin, cos, tan
 - Fractions
- Suggestions:
 - Casio FX-83GT

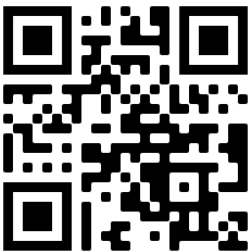


Resources

Our exam board for GCSE maths is AQA. You can find useful resources and past papers by scanning these QR codes or following the links:



- **Hegarty Maths-** <https://hegartymaths.com/>
- Free resources, worksheets, videos and more
- You will need a free login to use this site



- **Mathsbot-** <https://mathsbot.com/>
- GCSE revision packs, problem solving questions and topic questions



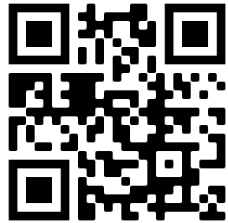
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Resources continued

You will also get a free mathswatch log in when you join Bury College



- **Mr Barton Maths-** <http://mrbartonmaths.com/index.html>
- Interactive notes and examples plus topic specific revision



- **On Maths-** <https://www.onmaths.com/>
- Interactive papers, mini mocks and GCSE prediction papers



- **Pixi Maths-** <https://www.piximaths.co.uk/>
- Topic revision, revision booklets for each grade, and problem solving booklets



Preparing for Maths at Bury College

Along with this PowerPoint there is a booklet provided to you which will help you to practice some essential maths skills ready for your time at Bury College.

It is strongly advised that you use your time over the summer months to complete this.