

Bridging the Gap between GCSE and A-level Maths



Bridging the Gap between GCSE and A-level Maths

Entry Requirements:

Maths

MIN grade 6

Further Maths

MIN grade 7



Many students say that they find the initial transition from GCSE to A-level Maths challenging.

In order to close this gap and be successful you will be required to complete transition work before you start year 12!!!



What you need to do

1. Visit <https://alevelmathsrevision.com/bridging-the-gap/>




- Watch the tutorial videos for Topics 01 – 10
- Complete the Questions for Topics 01 – 10
- Mark your work using the solutions

2. Visit <https://amsp.org.uk/resource/gcse-alevel-transition-resources>

- Complete all worksheets on Solving
- Explore Online video resources
 - Maths Genie
 - BICEN Maths (Youtube)
 - Hegarty Maths (Youtube)

Solving

The ability to solve equations is fundamental in maths. Whilst the process of solving equations is essential, the interpretation of solutions gained is equally important in real-world applications. Equations can take many forms from the linear and quadratic ones studied at GCSE to more complex ones studied at AS and A level. In this resource we will also look at inequalities which have many applications including maximising profit in business subject to constraints.

 Linear Equations  Quadratic Equations  Other Equations

3. Ensure all work organised and neatly filed away – **You will need to produce all your work to your very first A-level Maths lesson**



1. Visit <https://alevelmathsrevision.com/bridging-the-gap/>

- Watch the tutorial videos for Topics 01 – 10
- Complete the Questions for Topics 01 – 10
- Mark your work using the solutions



[Click Here For Info On AS Maths May Half Term Revision Course](#)

Search:

Brand	Questions	Solutions	Tutorial Video
re Maths	Topic 01 – Rearranging Formulae	Solutions	Video
re Maths	Topic 02 – Indices	Solutions	Video
re Maths	Topic 03 – Surds	Solutions	Video
re Maths	Topic 04 – Factorising Quadratics	Solutions	Video
re Maths	Topic 05 – Algebra	Solutions	Video
re Maths	Topic 06 – Completing The Square	Solutions	Video
re Maths	Topic 07 – Inequalities	Solutions	Video
re Maths	Topic 08 – Straight Lines	Solutions	Video
re Maths	Topic 09 – Further Straight Lines	Solutions	Video
re Maths	Topic 10 – Algebraic Fractions and Cancelling	Solutions	Video

Showing 1 to 10 of 10 entries

Subscribe to Our YouTube Channel

For notifications of all of our latest videos, click the button

below.   2K




2. Visit <https://amsp.org.uk/resource/gcse-alevel-transition-resources>


- Complete all worksheets on Solving
- Explore YouTube videos to help

Solving

The ability to solve equations is fundamental in maths. Whilst the process of solving equations is essential, the interpretation of solutions gained is equally important in real-world applications. Equations can take many forms from the linear and quadratic ones studied at GCSE to more complex ones studied at AS and A level. In this resource we will also look at inequalities which have many applications including maximising profit in business subject to constraints.

 Linear Equations

 Quadratic Equations

 Other Equations





Transition to A level Mathematics resources: Essential Skills

These resources are designed to help you to make the transition from GCSE to AS and A level Mathematics.

Many students say that they find the initial transition from GCSE challenging. These resources focus on key skills that will be used across the whole spectrum of AS and A level Mathematics. Each section includes:

- skills checks
- a chance to practise and explore
- some extra ideas that you may want to investigate further

There are six sets of resources, and each set should provide about 3 hours of work. If you really get engaged by the enrichment activities, you may want to spend longer than this. Each set includes either written worked solutions, video solutions or links to websites.

We hope you find these resources useful, that they add depth to your understanding, and that they help you make a smooth and successful transition to AS and A level Mathematics.

Guidance on using these resources

Student guide to using the GCSE to AS/A level...

- Read** some more about interesting fractions and how fractions are everywhere!
- Discover** more about fractions and series. This task explores what happens when you add fractions repeatedly.
- Watch** this video to find out one way that fractions connect biology and mathematics.

Simplifying

Simplifying numerical and algebraic expressions is an essential component in maths. Here we look at the key skill of simplifying and how it is applied to fractions, indices and surds in particular.



Factorising

In this section we are looking at the topic of factorising. We will look at expressions such as those with common factors or quadratics. Before starting AS or A level Mathematics it is essential that you are confident with factorising expressions and recognising when you can factorise. This skill will become very important when we consider solving and sketching.

 [Factorising](#)


 [Further Factorising](#)


 [Completing the Square](#)

Rearranging

Being able to rearrange formulae or equations is a fundamental process in algebraic manipulation. From simple conversions to more complicated mathematical formulae, rearranging helps to make calculations easier and plays an important role when studying AS or A level Mathematics. For students studying science as well as maths it is hugely important that you can rearrange scientific formulae with confidence.

 [Rearranging](#)

 [Rearranging and Factorising](#)

 [Rearranging and Fractions](#)

Solving

The ability to solve equations is fundamental in maths. Whilst the process of solving equations is essential, the interpretation of solutions gained is equally important in real-world applications. Equations can take many forms from the linear and quadratic ones studied at GCSE to more complex ones studied at AS and A level. In this resource we will also look at inequalities which have many applications including maximising profit in business subject to constraints.

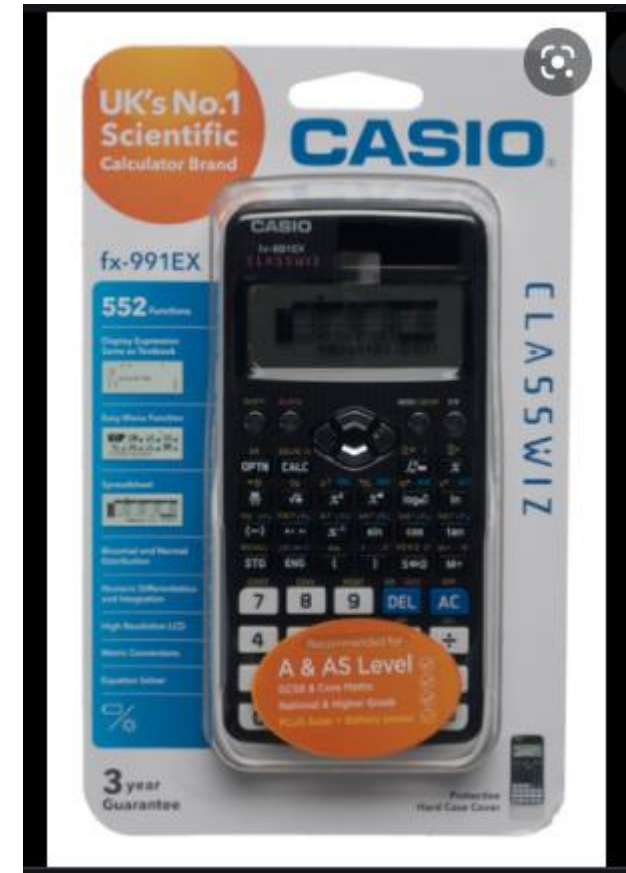
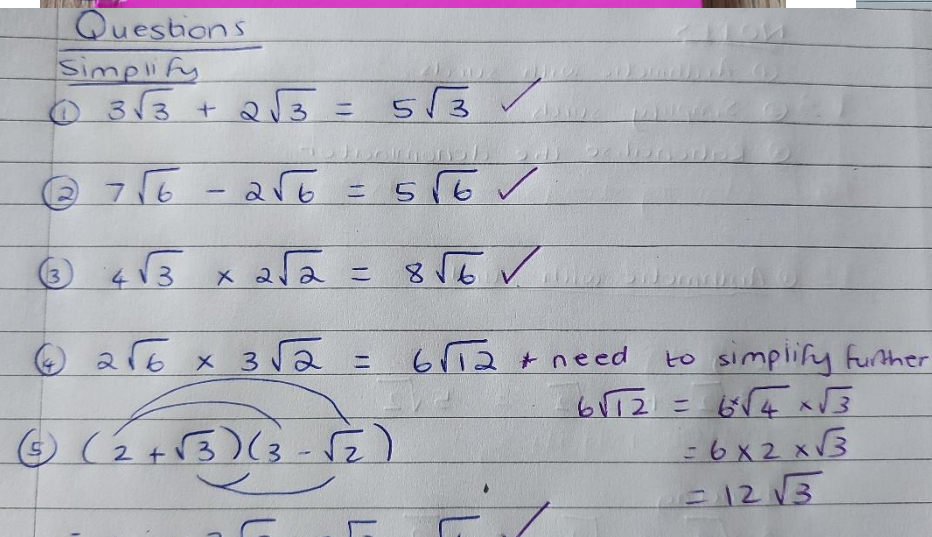
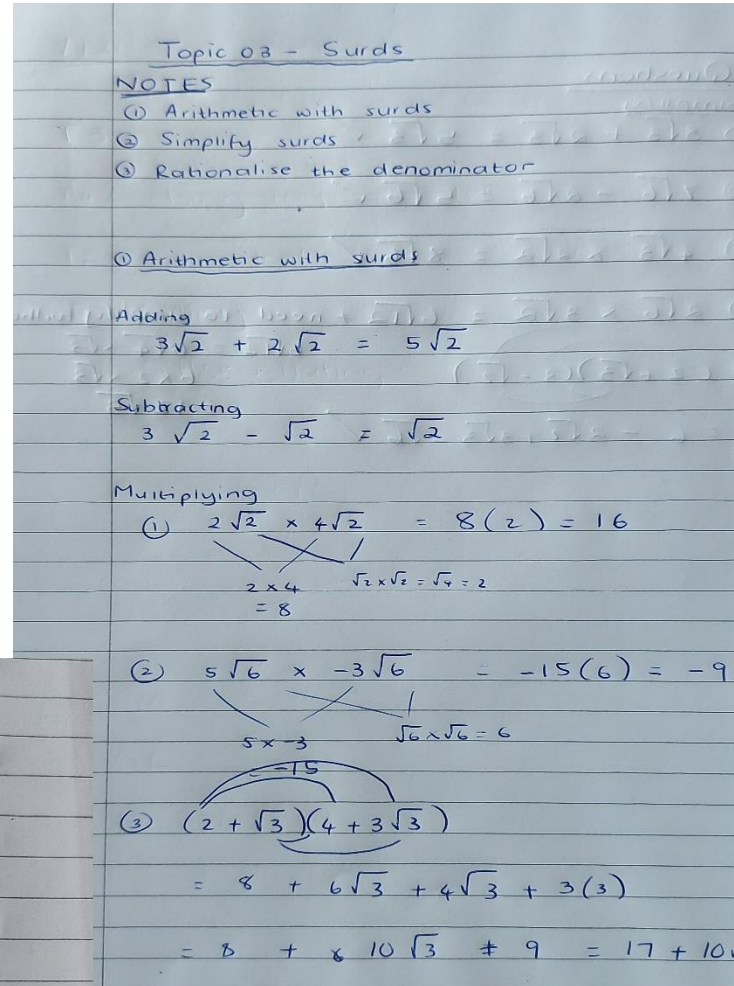
 [Linear Equations](#)

 [Quadratic Equations](#)

 [Other Equations](#)



3. Ensure all work organised and neatly filed away – You will need to produce all your work to your very first A-level Maths lesson



What we expect to see at your first lesson

1. Topics 01-10

- Notes made from Tutorial videos
- All questions from Topics 01-10 completed WITH WORKING OUT
- All questions from Topics 01-10 marked WITH FULL CORRECTIONS IF INCORRECT

2. Solving work

- Notes made from any YouTube videos watched to help
- All questions to Linear Equations, Quadratic Equations and Other Equations completed WITH WORKING OUT
- All questions marked WITH FULL CORRECTIONS IF INCORRECT



What do you need to know

- You will sit a baseline test in your second week of starting Year 12
- This baseline test will be a good indicator as to whether or not the course is right for you
- The Baseline test will cover ALL transition work

