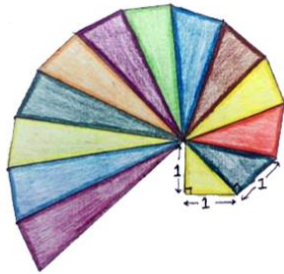


		Mathematics A Level
		<p>AQA 7356 (AS LEVEL) 7357 (A LEVEL)</p> <p>EDEXCEL AAL30 (L3 ALGEBRA)</p>
Reading	Resources	
	<p>1. Where is the maths you learn used? Skim read this document  <a href="https://www.qmul.ac.uk/maths/media/maths/undergraduate/Where_the_maths_you_learn_is_used.pdf">https://www.qmul.ac.uk/maths/media/maths/undergraduate/Where_the_maths_you_learn_is_used.pdf</a></p> <p>If you would like to read some more careers info try this site:  <a href="https://www.mathscareers.org.uk/">https://www.mathscareers.org.uk/</a></p> <p>2. Watch one of these:  <a href="https://www.ted.com/playlists/251/talks_for_people_who_hated_maths">https://www.ted.com/playlists/251/talks_for_people_who_hated_maths</a></p> <p>3. Read any two articles from this list:</p> <ul style="list-style-type: none"> <li>• How Long a Line Can A Pencil Draw?  <a href="https://plus.maths.org/content/how-long-line-can-pencil-draw">https://plus.maths.org/content/how-long-line-can-pencil-draw</a></li> <li>• Will the virus escape the vaccines?  <a href="https://plus.maths.org/content/will-virus-escape-vaccines">https://plus.maths.org/content/will-virus-escape-vaccines</a></li> <li>• The Logistic Map  <a href="https://plus.maths.org/content/maths-minute-logistic-map">https://plus.maths.org/content/maths-minute-logistic-map</a></li> <li>• Triangular Numbers  <a href="https://plus.maths.org/content/maths-minute-triangular-numbers">https://plus.maths.org/content/maths-minute-triangular-numbers</a></li> <li>• Seeing Traffic Through New Eyes  <a href="https://plus.maths.org/content/seeing-traffic-through-new-eyes">https://plus.maths.org/content/seeing-traffic-through-new-eyes</a></li> </ul> <p>If you enjoy these articles why not sign up for the plus magazine? It's free.  <a href="https://plus.maths.org/content/subscribe-plus">https://plus.maths.org/content/subscribe-plus</a></p>	

Your transition work is all contained on one website. It has been produced by the Advanced Mathematics Support Programme (AMSP).

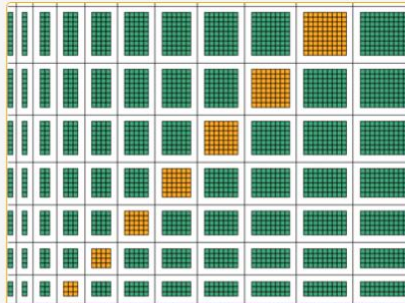
<https://amsp.org.uk/resource/gcse-alevel-transition-resources>



## Simplifying

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

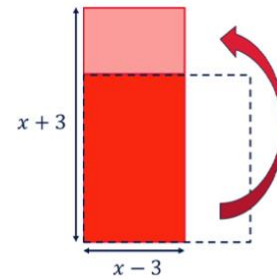
GO >>



## Expanding

Expanding (and simplifying) expressions is a key skill in many areas of maths. You will look at visual geometrical approaches, multiplication of numeric values, working through to manipulating algebraic expressions involving single, double, triple brackets and beyond!

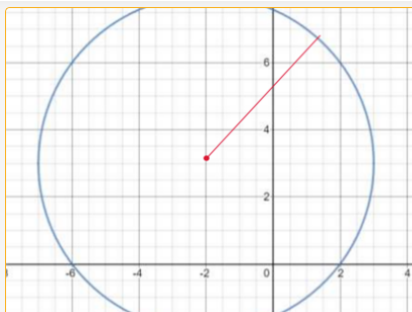
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## Factorising

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.

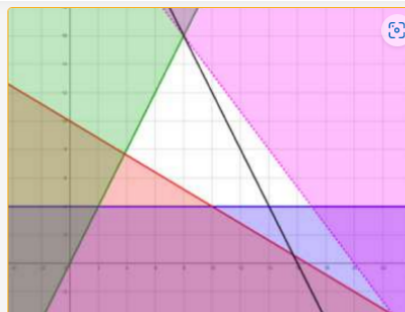
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## Rearranging

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.

GO >>

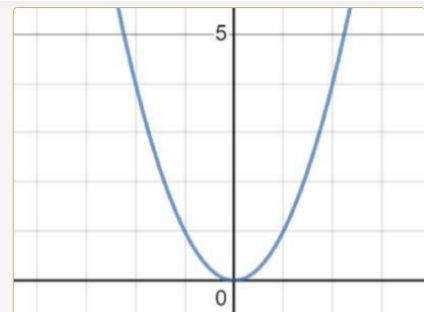


## Solving

The ability to solve equations and interpret solutions is fundamental in maths. 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.

GO >>



## Sketching













The use of sketching is a really important tool which can help simplify a written mathematical problem. From geometry in pure maths to mathematical modelling in mechanics, a sketch will help you to make sense of problems which look extremely challenging in written form. In this section we look at uses for sketching and the important role graph drawing packages can play to aid understanding.







GO >>

Start by watching the introductory video so that you understand the programme. You can be selective as you work through the sections; if it seems too easy move to the harder parts.

It is important that you do work through each section. The better your work on the AMSP programme the better start you will make in September.

***You don't need a portfolio of evidence however there will be a 1 hour "A Level Ready?" assessment in September.***

When?	What?	Extras (all links can be accessed from the AMSP documents)
Summer Task 1	Simplifying	<p><b>Downloads</b></p> <ul style="list-style-type: none"> <li> Simplifying fractions <a href="#">Download</a></li> <li> Simplifying indices <a href="#">Download</a></li> <li> Simplifying surds <a href="#">Download</a></li> </ul>
Summer Task 2	Expanding	<p><b>Downloads</b></p> <ul style="list-style-type: none"> <li> Expanding <a href="#">Download</a></li> <li> Expanding - Double brackets <a href="#">Download</a></li> <li> Expanding - More brackets <a href="#">Download</a></li> </ul>
Summer Task 3	Factorising	<p><b>Downloads</b></p> <ul style="list-style-type: none"> <li> Factorising <a href="#">Download</a></li> <li> Further factorising <a href="#">Download</a></li> <li> Factorising - Completing the square <a href="#">Download</a></li> </ul>
Summer Task 4	Rearranging	<p><b>Downloads</b></p> <ul style="list-style-type: none"> <li> Rearranging <a href="#">Download</a></li> <li> Rearranging and factorising <a href="#">Download</a></li> <li> Rearranging fractions <a href="#">Download</a></li> </ul>

Summer Task 5	Solving	<h3>Downloads</h3> <div data-bbox="533 181 1428 237"> Solving - Linear equations <a href="#">Download</a></div> <div data-bbox="533 255 1428 311"> Solving - Quadratic equations <a href="#">Download</a></div> <div data-bbox="533 329 1428 385"> Solving - Other equations <a href="#">Download</a></div>
Summer Task 6	Sketching	<h3>Downloads</h3> <div data-bbox="533 524 1428 580"> Linear sketching <a href="#">Download</a></div> <div data-bbox="533 598 1428 654"> Quadratic sketching <a href="#">Download</a></div> <div data-bbox="533 672 1428 728"> Other sketching <a href="#">Download</a></div>