

Key threshold concept	Key Web-links	Additional resources
<p>These are the key GCSE topics that you should be familiar with and be able to recall quickly. Therefore, the best way to learn these skills is to attempt practice questions.</p>	<p>The main resources available to help are; MathsGenie https://www.mathsgenie.co.uk/gcse.html CorbettMaths https://corbettmaths.com/contents/ Pinpoint Learning https://www.pinpointlearning.co.uk/Y11ToAlevelTransitionPacks2.php#puremaths</p>	<p>Any number of useful videos are available on Youtube, as well as helpful short clips on MathsGenie and CorbettMaths</p>
<p>Pure Expand and Factorise</p>	<p>https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%201%20Pack%201%20-%20Expanding%20and%20Factorising.pdf Triple Brackets https://www.mathsgenie.co.uk/resources/6-expanding-triple-brackets-ws.pdf https://www.mathsgenie.co.uk/resources/7-factorising-harder-quadratics.pdf</p>	<p>https://www.youtube.com/watch?v=so1osztjFhg Progressively harder factorising questions https://www.youtube.com/watch?v=CPzWzl3U5Gg</p>
<p>Pure Index Laws</p>	<p>Fractional and Negative powers https://www.mathsgenie.co.uk/resources/6-fractional-and-negative-indices-ws.pdf https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%201%20Pack%202%20-%20Indices.pdf</p>	<p>Fluency with index laws https://www.youtube.com/watch?v=8BaI_tA8Xm4 https://www.youtube.com/watch?v=Z4Lzi1gFndM</p>

<p>Pure</p> <p>Surds</p>	<p>https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%201%20Pack%203%20-%20Surds.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/surds.pdf</p>	<p>A full 30 minute lesson on surds</p> <p>https://www.youtube.com/watch?v=fAbJ-YyOAwQ</p> <p>https://www.youtube.com/watch?v=YPcKs1OV-X0</p>
<p>Pure</p> <p>Quadratics</p>	<p>Solving Quadratics</p> <p>https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%202%20pack%201%20-%20Solving%20Quadratic%20Equations.pdf</p> <p>Completing the Square</p> <p>https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%202%20pack%202%20-%20Quadratic%20Graphs%20and%20Completing%20the%20Square.pdf</p>	<p>https://www.youtube.com/watch?v=fC5cWdLB8kY</p> <p>https://www.youtube.com/watch?v=FPI_ajz4qCY</p>
<p>Pure</p> <p>Equations and Inequalities</p>	<p>Quadratics Simultaneous Equations</p> <p>https://www.mathsgenie.co.uk/resources/9-quadratic-simultaneous-equations-ws.pdf</p> <p>Inequalities</p> <p>https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%203%20pack%202%20-%20Inequalities.pdf</p>	<p>Rearranging equation and formula is an essential skill in Maths A level</p> <p>https://www.youtube.com/watch?v=4rBR6DUpQkQ</p> <p>https://www.youtube.com/watch?v=ablcp1ulGwg</p>
<p>Pure</p> <p>Straight Line Graphs</p>	<p>Gradient</p> <p>https://www.mathsgenie.co.uk/resources/5-gradient-of-a-line-ws.pdf</p> <p>Equations of lines</p> <p>https://www.mathsgenie.co.uk/resources/equationofaline-ws.pdf</p> <p>Perpendicular Lines</p> <p>https://www.mathsgenie.co.uk/resources/perpendicularlines-ws.pdf</p>	<p>Finding the equation of a line with two points</p> <p>https://www.youtube.com/watch?v=n9tWZixoMRI</p> <p>Parallel and Perpendicular</p> <p>https://www.youtube.com/watch?v=xX5CZKJnhjl</p>

<p style="text-align: center;">Pure</p> <p style="text-align: center;">Trigonometry</p>	<p style="text-align: center;">SOHCAHTOA https://www.mathsgenie.co.uk/resources/5-SOHCAHTOA-ws.pdf</p> <p style="text-align: center;">Exact Values https://corbettmaths.com/wp-content/uploads/2013/02/exact-trig-values-pdf.pdf</p> <p style="text-align: center;">Graphs https://corbettmaths.com/wp-content/uploads/2013/02/trig-graphs-pdf.pdf</p>	<p style="text-align: center;">An explanation of Trig graphs https://www.youtube.com/watch?v=TZkXGg3Kkcc</p> <p style="text-align: center;">Why is trigonometry so important? https://www.youtube.com/watch?v=VjdCDZ0f3s4</p>
<p style="text-align: center;">Applied</p> <p>Representing Data</p> <ul style="list-style-type: none"> • Box plots • Cumulative Frequency • Histograms 	<p style="text-align: center;">Box plots https://www.mathsgenie.co.uk/resources/6-box-plots-ws.pdf</p> <p style="text-align: center;">Cumulative Frequency https://www.mathsgenie.co.uk/resources/6-cumulative-frequency.pdf</p> <p style="text-align: center;">Histograms https://www.mathsgenie.co.uk/resources/7-histograms.pdf https://corbettmaths.com/wp-content/uploads/2013/02/histograms-pdf2.pdf</p>	<p style="text-align: center;">Watch the clips on MathsGenie and CorbettMaths that accompany these resources. You can find material on Youtube too https://www.youtube.com/watch?v=6VmytO26KbA</p>
<p style="text-align: center;">Applied</p> <p>Probability</p> <ul style="list-style-type: none"> • Venn Diagrams • Tree Diagrams 	<p style="text-align: center;">Venn Diagrams https://corbettmaths.com/wp-content/uploads/2013/02/venn-diagrams-pdf.pdf https://www.mathsgenie.co.uk/resources/5-venn-diagrams-ws.pdf https://www.mathsgenie.co.uk/resources/venndiagrams-ws.pdf</p> <p style="text-align: center;">Tree Diagrams https://www.mathsgenie.co.uk/resources/5-probability-trees-ws.pdf https://www.mathsgenie.co.uk/resources/9-probability-equation-ws.pdf</p>	<p style="text-align: center;">Youtube video on Set Notation and intersections https://www.youtube.com/watch?v=2TMu2cr9oDk</p>

<p>Pure / Applied</p> <p>Vectors</p>	<p>https://www.mathsgenie.co.uk/resources/5-vectors.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/vectors-pdf.pdf</p>	<p>Vectors, what are they?</p> <p>https://www.youtube.com/watch?v=fNk_zzaMoSs</p> <p>https://www.youtube.com/watch?v=Sp1oJSrB94</p> <p>https://www.pinpointlearning.co.uk/AS%20level%20Preparation%20Packs/Chapter%2011%20Pack%20-%20Vectors.pdf</p>
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