

# A Level Maths

## Part A - Bridging Work Task

This is a fantastic opportunity to expand your understanding of A Level Maths as you prepare for enrolment and start at Franklin in September.

Please complete the work and bring a copy to your enrolment, either printed or electronically.

<b>How do I complete and submit my task?</b>	<p>Complete the tasks on paper/handwritten or digitally and bring a copy either paper or electronically to your enrolment appointment, also take this to your first lesson in September.</p> <p>If you did not attend the Taster Day don't worry – this isn't essential for completing this work but, please ensure that you have completed this bridging work.</p>														
<b>Introduction to your Bridging Task</b>	<p>In this bridging work you will learn about the binomial expansion. This is a topic studied in A Level Mathematics and will give you the chance to acquire a new skill whilst getting a feel for what the course entails. <b>If you are planning to study Further Maths alongside A Level Maths, the bridging work remains the same task.</b></p>														
<b>Task details</b>	<p>This task is split up into five distinct parts. Each part comes with a video. You are expected to:</p> <ul style="list-style-type: none"><li>- Make notes on the videos by completing the 'You do' on each example, these notes will be required either on your first lesson.</li><li>- Complete the mini quizzes when asked, again make sure you have all your working out written out and ready to be uploaded.</li></ul> <p><b>The links to both the videos and quizzes are on the document below.</b> <b>Note: You only have 1 attempt at each quiz.</b></p> <table border="1" data-bbox="429 1648 1362 1854"><tr><td rowspan="4"><b>Lesson 1</b></td><td>Video</td><td><a href="https://vimeo.com/529802396">https://vimeo.com/529802396</a></td></tr><tr><td>Mini Quiz 1</td><td><a href="https://forms.gle/SVh1W4EYLKx5GLZ77">https://forms.gle/SVh1W4EYLKx5GLZ77</a></td></tr><tr><td>Mini Quiz 2</td><td><a href="https://forms.gle/1WW3vtXTLGQQR3dC9">https://forms.gle/1WW3vtXTLGQQR3dC9</a></td></tr><tr><td>Mini Quiz 3</td><td><a href="https://forms.gle/tGg5v63hwRsm7cF59">https://forms.gle/tGg5v63hwRsm7cF59</a></td></tr></table> <table border="1" data-bbox="429 1917 1362 2029"><tr><td rowspan="2"><b>Lesson 2</b></td><td>Video</td><td><a href="https://vimeo.com/529802434">https://vimeo.com/529802434</a></td></tr><tr><td>Mini Quiz 1</td><td><a href="https://forms.gle/Pz3EVnPsN2Tr6M1w6">https://forms.gle/Pz3EVnPsN2Tr6M1w6</a></td></tr></table>	<b>Lesson 1</b>	Video	<a href="https://vimeo.com/529802396">https://vimeo.com/529802396</a>	Mini Quiz 1	<a href="https://forms.gle/SVh1W4EYLKx5GLZ77">https://forms.gle/SVh1W4EYLKx5GLZ77</a>	Mini Quiz 2	<a href="https://forms.gle/1WW3vtXTLGQQR3dC9">https://forms.gle/1WW3vtXTLGQQR3dC9</a>	Mini Quiz 3	<a href="https://forms.gle/tGg5v63hwRsm7cF59">https://forms.gle/tGg5v63hwRsm7cF59</a>	<b>Lesson 2</b>	Video	<a href="https://vimeo.com/529802434">https://vimeo.com/529802434</a>	Mini Quiz 1	<a href="https://forms.gle/Pz3EVnPsN2Tr6M1w6">https://forms.gle/Pz3EVnPsN2Tr6M1w6</a>
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	<b>Lesson 3</b>	Video	<a href="https://vimeo.com/529802342">https://vimeo.com/529802342</a>
		Mini Quiz 1	<a href="https://forms.gle/o6sQ2JQYX5adBF1CA">https://forms.gle/o6sQ2JQYX5adBF1CA</a>
		Mini Quiz 2	<a href="https://forms.gle/maXr1yM3sMmw1Kho8">https://forms.gle/maXr1yM3sMmw1Kho8</a>
	<b>Lesson 4</b>	Video	<a href="https://vimeo.com/529803621">https://vimeo.com/529803621</a>
		Mini Quiz 1	<a href="https://forms.gle/q2HdARTtDoFoBy797">https://forms.gle/q2HdARTtDoFoBy797</a>
		Mini Quiz 2	<a href="https://forms.gle/aQazWfr2DqfT3r846">https://forms.gle/aQazWfr2DqfT3r846</a>
<b>Lesson 5</b>	Video	<a href="https://vimeo.com/529803591">https://vimeo.com/529803591</a>	
	Mini Quiz 1	<a href="https://forms.gle/n6RnvzCmogNbJBnZ6">https://forms.gle/n6RnvzCmogNbJBnZ6</a>	
	Mini Quiz 2	<a href="https://forms.gle/geqE6gsfHoKGY9fv9">https://forms.gle/geqE6gsfHoKGY9fv9</a>	
	Mini Quiz 3	<a href="https://forms.gle/NqyRmuuafSxbbYu46">https://forms.gle/NqyRmuuafSxbbYu46</a>	
<b>Resources to help you with the Bridging Task</b>	Videos & Mini-Quizzes can be found in the task details above.		
<b>Extension Tasks</b>			
<b>Extension Tasks to stretch and challenge you</b>	<p>If you have completed the above to the best of your ability, feel free to try this extension task (<i>this is optional</i>):</p> <ol style="list-style-type: none"> <li>Go to the following link to try applying the binomial expansion to this problem: <a href="#">Can we use a binomial expansion to evaluate <math>(19\frac{3}{4})^6</math></a></li> <li>Now go to the following link to try applying the binomial expansion to this problem: <a href="#">Can we estimate a difference of eighth powers?</a></li> </ol>		

# A Level Maths & Further Maths

## Part B – Preparing for Studying at Franklin

A fantastic opportunity to widen your understanding of the course.

<b>Examining Board and Specification</b>	<p>This course follows Edexcel A Level Mathematics specification. The full specification can be found here: <a href="#">Pearson Edexcel Level 3 Advanced GCE in Mathematics (9MA0)</a></p> <p><b>Here are some of the topics we cover on the course:</b></p> <p><b>Section A - Pure</b></p> <ul style="list-style-type: none"><li>• Algebra and functions</li><li>• Coordinate geometry</li><li>• Sequences and series</li><li>• Trigonometry</li><li>• Exponentials and logarithms</li><li>• Differentiation</li><li>• Integration</li><li>• Vectors</li></ul> <p><b>Section B - Statistics</b></p> <ul style="list-style-type: none"><li>• Probability</li><li>• Statistical distributions &amp; Hypothesis Testing</li><li>• Statistical hypothesis testing</li></ul> <p><b>Section C - Mechanics</b></p> <ul style="list-style-type: none"><li>• Kinematics</li><li>• Forces and Newton's laws</li><li>• Moments</li></ul> <p><b>Progression after this course:</b></p> <p>This qualification will allow you to consider a vast amount of educational and career paths, depending on your interests and goals. You can pursue a degree in Mathematics, Engineering, Computer Science, Physics, Economics, Finance and many more.</p>
<b>Preparing for the course</b>	<p>As well as completing the bridging work on the A Level topic, binomial expansion, you may wish to get yourself fully prepared for A Level Maths. There are many excellent YouTube channels and websites out there, however <b>we advise the "Head Start to A Level Maths" book</b> at the very reasonable price of £5.95.</p> <p><b>Text book:</b> <a href="https://www.amazon.co.uk/Head-Start-Level-Maths-2017-2018/dp/1782947922">https://www.amazon.co.uk/Head-Start-Level-Maths-2017-2018/dp/1782947922</a></p> <p><b>YouTube:</b> <a href="https://sites.google.com/view/tlmaths/home/gcse-to-a-level-maths-bridging-the-gap">https://sites.google.com/view/tlmaths/home/gcse-to-a-level-maths-bridging-the-gap</a></p>