

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.

How do I complete and submit my task?	<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> <p>To view the videos, you will need to login to Vimeo using your Franklin College account.</p> <p>To complete the quizzes, you will need to login using your Franklin College account.</p>									
Introduction to your Bridging Task	<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. If you are planning to study Further Maths alongside A Level Maths, the bridging work remains the same task.</p>									
Task details	<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">- Make notes on the videos by completing the 'You do' on each example, these notes will be required either on your first lesson.- Complete the mini quizzes when asked, again make sure you have all your working out written out and ready to be uploaded. <p>The links to both the videos and quizzes are on the document below.</p> <table><tr><td rowspan="4">Lesson 1</td><td>Video</td><td>https://youtu.be/OdjWo3DBZyU?si=vNvNh2rKHaj_ukFQ</td></tr><tr><td>Mini Quiz 1</td><td>https://forms.gle/SVh1W4EYLKx5GLZ77</td></tr><tr><td>Mini Quiz 2</td><td>https://forms.gle/1WW3vtXTLGQQR3dC9</td></tr><tr><td>Mini Quiz 3</td><td>https://forms.gle/tGg5v63hwRsm7cF59</td></tr></table> <p>Note: You only have 1 attempt at each quiz.</p>	Lesson 1	Video	https://youtu.be/OdjWo3DBZyU?si=vNvNh2rKHaj_ukFQ	Mini Quiz 1	https://forms.gle/SVh1W4EYLKx5GLZ77	Mini Quiz 2	https://forms.gle/1WW3vtXTLGQQR3dC9	Mini Quiz 3	https://forms.gle/tGg5v63hwRsm7cF59
Lesson 1	Video		https://youtu.be/OdjWo3DBZyU?si=vNvNh2rKHaj_ukFQ							
	Mini Quiz 1		https://forms.gle/SVh1W4EYLKx5GLZ77							
	Mini Quiz 2		https://forms.gle/1WW3vtXTLGQQR3dC9							
	Mini Quiz 3	https://forms.gle/tGg5v63hwRsm7cF59								

	Lesson 2	Video	https://youtu.be/Vld31mGhlgo?si=xyXi3NYxlKLcTaaf
		Mini Quiz 1	https://forms.gle/Pz3EVnPsN2Tr6M1w6
		Mini Quiz 2	https://forms.gle/yR3f1fkGSAcmhAYR6
	Lesson 3	Video	https://youtu.be/vN8x6xL2Ri8?si=FS1gkukm0AGz4wKH
		Mini Quiz 1	https://forms.gle/o6sQ2JQYX5adBF1CA
		Mini Quiz 2	https://forms.gle/maXr1yM3sMmw1Kho8
	Lesson 4	Video	https://youtu.be/dEP5LPhuqiM?si=vBjDqpmPQlxm4LtL
		Mini Quiz 1	https://forms.gle/q2HdARTtDoFoBy797
		Mini Quiz 2	https://forms.gle/aQazWfr2DqfT3r846
	Lesson 5	Video	https://youtu.be/JXeFY2tHGf0?si=kXjn2wo8UnITnzql
		Mini Quiz 1	https://forms.gle/n6RnvzCmogNbJBnZ6
		Mini Quiz 2	https://forms.gle/geqE6gsfHoKGY9fv9
Mini Quiz 3		https://forms.gle/NqyRmuuafSxbbYu46	
Resources to help you with the Bridging Task	Videos & Mini-Quizzes can be found in the task details above.		
Extension Tasks			
Extension Tasks to stretch and challenge you	<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">1. Go to the following link to try applying the binomial expansion to this problem: Can we use a binomial expansion to evaluate $(19\frac{3}{4})^6$2. Now go to the following link to try applying the binomial expansion to this problem: Can we estimate a difference of eighth powers?		

A Level Maths & Further Maths

Part B – Preparing for Studying at Franklin

A fantastic opportunity to widen your understanding of the course.

Examining Board and Specification	<p>This course follows Edexcel A Level Mathematics specification. The full specification can be found here: Pearson Edexcel Level 3 Advanced GCE in Mathematics (9MA0)</p> <p>Here are some of the topics we cover on the course:</p> <p>Section A - Pure</p> <ul style="list-style-type: none">• Algebra and functions• Coordinate geometry• Sequences and series• Trigonometry• Exponentials and logarithms• Differentiation• Integration• Vectors <p>Section B - Statistics</p> <ul style="list-style-type: none">• Probability• Statistical distributions & Hypothesis Testing• Statistical hypothesis testing <p>Section C - Mechanics</p> <ul style="list-style-type: none">• Kinematics• Forces and Newton's laws• Moments <p>Progression after this course:</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>
Preparing for the course	<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 we advise the "Head Start to A Level Maths" book at the very reasonable price of £5.95.</p> <p>Text book: https://www.amazon.co.uk/Head-Start-Level-Maths-2017-2018/dp/1782947922</p> <p>YouTube: https://sites.google.com/view/tlmaths/home/gcse-to-a-level-maths-bridging-the-gap</p>