

# A Level Further 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>	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. 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.
<b>Introduction to your Bridging Task</b>	In this bridging work you will learn about vectors. This is a topic studied in A Level Mathematics and will give you the chance to recap your GCSE knowledge and acquire new skills.

<b>Task details</b>	<p>This task is split up into four 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. These notes will be required on your first lesson.</li><li>- Complete questions from the exercise.</li></ul> <p><b>The links to both the videos and quizzes are on the document below.</b></p> <table border="1" data-bbox="432 1574 1362 1659"><tr><td data-bbox="438 1583 571 1650"><b>Lesson 1</b></td><td data-bbox="576 1583 1356 1650"><a href="https://drive.google.com/file/d/1zWM0oQNR4v6sQpnxc_mshlfv7eY3sKoQ/view?usp=sharing">https://drive.google.com/file/d/1zWM0oQNR4v6sQpnxc_mshlfv7eY3sKoQ/view?usp=sharing</a></td></tr></table> <table border="1" data-bbox="432 1765 1362 1883"><tr><td data-bbox="438 1774 571 1841"><b>Lesson 2</b></td><td data-bbox="576 1774 1356 1841"><a href="https://drive.google.com/file/d/1g3A3DMYMiW093R-gQwL7d6qoZmDnDsfr/view?usp=sharing">https://drive.google.com/file/d/1g3A3DMYMiW093R-gQwL7d6qoZmDnDsfr/view?usp=sharing</a></td></tr></table>	<b>Lesson 1</b>	<a href="https://drive.google.com/file/d/1zWM0oQNR4v6sQpnxc_mshlfv7eY3sKoQ/view?usp=sharing">https://drive.google.com/file/d/1zWM0oQNR4v6sQpnxc_mshlfv7eY3sKoQ/view?usp=sharing</a>	<b>Lesson 2</b>	<a href="https://drive.google.com/file/d/1g3A3DMYMiW093R-gQwL7d6qoZmDnDsfr/view?usp=sharing">https://drive.google.com/file/d/1g3A3DMYMiW093R-gQwL7d6qoZmDnDsfr/view?usp=sharing</a>
<b>Lesson 1</b>	<a href="https://drive.google.com/file/d/1zWM0oQNR4v6sQpnxc_mshlfv7eY3sKoQ/view?usp=sharing">https://drive.google.com/file/d/1zWM0oQNR4v6sQpnxc_mshlfv7eY3sKoQ/view?usp=sharing</a>				
<b>Lesson 2</b>	<a href="https://drive.google.com/file/d/1g3A3DMYMiW093R-gQwL7d6qoZmDnDsfr/view?usp=sharing">https://drive.google.com/file/d/1g3A3DMYMiW093R-gQwL7d6qoZmDnDsfr/view?usp=sharing</a>				

	<b>Lesson 3</b>	<a href="https://drive.google.com/file/d/1ckfgPgM38Dwcf3v71j1HjbSJO_dBDJ2e/view?usp=sharing">https://drive.google.com/file/d/1ckfgPgM38Dwcf3v71j1HjbSJO_dBDJ2e/view?usp=sharing</a>
	<b>Lesson 4</b>	<a href="https://drive.google.com/file/d/1XpW-vuDEcT5uRvpbBNYGhK2aZLg3SCI4/view?usp=sharing">https://drive.google.com/file/d/1XpW-vuDEcT5uRvpbBNYGhK2aZLg3SCI4/view?usp=sharing</a>
<b>Resources to help you with the Bridging Task</b>	Videos and exercises can be found on the links above.	
<b>Extension Tasks</b>		
<b>Extension Tasks to stretch and challenge you</b>	Can you solve this vector problem? <a href="https://undergroundmathematics.org/vector-geometry/hit-the-spot">https://undergroundmathematics.org/vector-geometry/hit-the-spot</a>	

# 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>