

Getting Ready For					
Further Mathematics					
Your Name					
A Level Further Maths	Introduction to A Level Further Maths	Edexcel			

We are delighted you have chosen to study Further Mathematics at Haywards Heath College.

Instructions: This pack will help you make the best possible start to studying this subject.

The tasks in this pack:

- should take you about 4 hours to complete.
- should be handed into your teacher when teaching starts **from 14**th **September 2020** with your name on it for assessment.
- are also available on the internet follow the links in the document.

If you need help: The tasks are designed to get a bit more difficult as you work through them as they are preparing you for studying at a higher level and to become an effective independent learner. You should try to get as far as you can working on your own but if you do need help, please email us at info@haywardsheath.ac.uk telling us which Getting Ready For pack you are working on and what help you need. Help is available throughout the summer holidays.

Skills Focus for this Getting Ready for Pack			
Researching	Revision		
Independent Learning Problem Solving	Presentation/Layout		



Target Grade	Type of task	Task and subject specific skill reference	Deadline
All Revision questions	Revision	0.1 GCSE Algebra	from 14 th
	This link takes you to some GCSE algebra questions: Task 0.1 Complete	September	
		them with full working.	2020
		Answers are provided so mark and correct your work using a different	
		colour pen. Please bring your answers to your first further maths lesson.	
All	Research	0.2 Introduction to Complex Numbers	from 14 th
	and	Further Maths includes work on complex numbers.	September
	questions	This link takes you to some notes and questions: Task 0.2	2020
·	Read the notes very carefully and watch the videos below as necessary.		
		Answer all the questions thoroughly.	
		Using the answers provided, mark your work in a different colour and	
		review anything you got wrong.	
	Please bring your answers to your first Further Maths lesson.		
		Helpful videos from Khan Academy:	
		Intro to the imaginary numbers	
		Simplifying roots of negative numbers	
		Powers of the imaginary unit	
		Intro to complex numbers	
		Adding complex numbers	
		<u>Subtracting complex numbers</u>	
		Multiplying complex numbers	
		Solving quadratic equations: complex roots	
		<u>Dividing Complex numbers</u>	
Extension Questions	Questions	0.3 Complex Numbers Challenge	from 14 th
		A couple of exam questions on Complex numbers: Task 0.3	September
		You may have to do a bit more of your own research but have a go!	2020
		Complete with full working and mark/annotate in a different colour.	
		Bring to your first Further Maths lesson.	
		Hint: z* is called the complex conjugate of z. The real part is the same	
		but the imaginary part has a change of sign. E.g. If z = 3 + 4i, then z* = 3	
		- 4i, or if z = -2 - 6i then z* = -2 + 6i.	
		When solving equations replace z with $x + iy$ and replace z^* with $x - iy$,	
		then compare real and imaginary parts.	
Notes:	•	· · · · · · · · · · · · · · · · · · ·	