

The Sixth Form at George Abbot



'Academic excellence within a vibrant community.'

Subject: Maths and Further Maths

Pre Sixth Form Tasks Checklist

Task	Detail	Demonstrated		
		Yes	Partially	No
Organisation	Two folders – Pure and Applied			
	Each folder should have dividers for each chapter and a separate divider for assessments:			
	Pure: Chapters 1 -14			
	Applied: Chapters 1-11			
	Specification for A level Maths printed (Pg15-32) and included in the folders.			
	This task sheet, printed & included in folder.			
Tasks	Complete Assignments			
	Task 1: A-Level Maths Assignment on Dr Frost			
	Task 2: Mathematical Notation and Symbols			
	Task 3: Researching some A-Level Maths Topics			
Further reading	Logon to Pearson Active Learn and access the Year 1 pure and applied books.			
	Pick a chapter from Year 1 pure or Year 1 Applied books on Active Learn and read ahead – have one thing to share about what you've read.			

Please be aware that you will be given a baseline test at the start of the new term. This work will help you prepare for this test.

Link to Subject Specification

This must be downloaded and printed if not provided by department in another format

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.coursematerials.html#filterQuery=Pearson-UK:Category%2FSpecification-and-sample-assessments>

Suggested Reading List and Subject Resources

Apps:

Pearson ActiveLearn:

<https://www.pearsonactivelearn.com/app/Home>

Here you can access all the textbooks for both the Pure and Applied sections of the course.

Calculators:

You must have the new CASIO FX-991EX CLASSWIZ calculator – which you can purchase on Wisepay.

Books:

Textbooks can be purchased from <https://www.brownsbfs.co.uk/> or you can borrow them from the library but there is only a limited amount or second hand on ebay etc...

All tasks completed	Yes	No
Subject Teacher Signature		

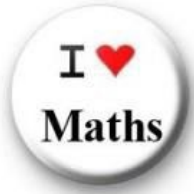
The Sixth Form at George Abbot

Pre Sixth Form Tasks



Subject: A-Level Mathematics

Exam Board: Edexcel



Welcome to A-level Maths and Further Maths. We are delighted that you wish to continue studying maths in Year 12. To demonstrate your commitment to the course and to prepare you for September, you must complete the following tasks to the best of your ability. These tasks are compulsory. The tasks must be completed prior to your first maths lesson in Year 12 and brought with you to that lesson.

We expect you spend at least 4 hours completing the tasks outlined in this pack. The first activity is designed to ensure you are capable of all the GCSE skills that are required knowledge before starting the A-Level maths course, the other activities are to help you begin to understand some of the notation and topics that you will come across whilst studying A-level maths.

Learning Objectives:

- To ensure that you fully understand all of the GCSE topics which are pre- requirements of the A-Level maths course*
- To understand different mathematical notation and symbols*
- To develop the ability to work independently to research topics that are new or that you are unsure about.*
- To develop a basic understanding of some of the topics that you will learn during the A-level maths or Further maths course.*

Contact for Support:

Ms Howarth

lhowarth@georgeabbot.surrey.sch.uk

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Pre Sixth Form Tasks

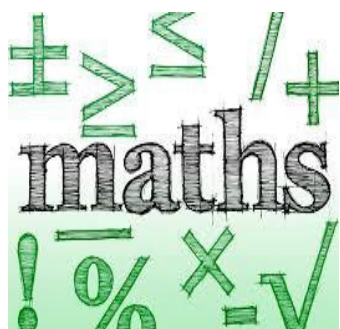
Task 1: A-Level Maths Assignment on Dr Frost

Please complete the relevant assignment on Dr Frost:

A level Bridging Questions - Single maths

Or

A level Bridging Questions - Further maths



All of the questions in these assignments are from topics that you have studied at GCSE maths but that you will study further at A-Level maths. Please complete questions on Dr Frost. If this is not possible, please complete on A4 lined paper and show all your workings. We will check that this work is completed at the start of term. You may use your notes, revision guides, Active learn or

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Pre Sixth Form Tasks



Task 2: Mathematical Notation and Symbols

Find out what the following mathematical notation or symbols mean

1) $n!$

2) \int

3) $|x|$

4) Σ

5) $\binom{n}{r}$

6) \bar{x}

7) \mathbb{R}

8) \mathbb{N}

9) \mathbb{Q}

10) \mathbb{Z}

11) $f(x)$

12) i

