

MATHS



11 - 12 TRANSITION WORK

Introduction

This work aims to ensure that you have a strong understanding of the parts of GCSE Maths which are most important to A-level maths.

It will help evaluate your skills in Algebra, Coordinate Geometry and Trigonometry.

Hand in your work to your Maths teacher at your first lesson in September.

1 - Prepare for learning

For this subject you will need the following:

- Pen, pencil, ruler
- Casio fx-991 CW+ ClassWiz Calculator (this will be provided for you if you are in receipt of Post-16 bursary)

Bring this with you to your first lesson

2 - Tasks for learning

Complete each of the following worksheets, which are available on the Mathematics Transition Work icon on the webpage. Each one should take around 30 minutes to answer:

Algebraic Manipulation

Functions

Indices and Surds

Quadratics

Straight Lines and Circles

Trigonometry

3 - Expand your mind

These tasks are not compulsory, but if you would like to delve a little deeper into your subject here are some suggested things to read / watch:

Books

- Fermat's Last Theorem, Simon Singh
- The Great Mathematical Problems: Marvels and Mysteries of Mathematics, Ian Stewart
- Humble Pi: A Comedy of Maths Errors, Matt Parker

Programmes/ films to watch

- Horizon: Fermat's Last Theorem, BBC iPlayer
- Hidden Figures, Disney+ (available to rent on other services)
- The Man Who Knew Infinity