

Core Maths AS-level Transition Plan

The AS-level transition pack for Core Maths consists of 3 sections and 3 activities in each section for you to work through over the summer. Two of these activities focus on the GCSE content you will need to have a sound grasp of to access the AS-level course. The third is a development of your Maths skills into some computer skills that you will need.

The secondary aim of this pack is to help you develop the skills you will need to develop to become a successful independent learner; these include time management, resilience, and drawing conclusions.

The table below contains details of each activity pack including the difficulty level of the topic, the GCSE specification reference and the deadline by which the work should be completed. Each pack should take around 1 to 2 hours to complete, except the individual project. The individual project allows students to take their time, either to impress me with their current IT skills or their ability to swiftly learn new ones.

Activity Pack	Approximate GCSE Grade	Description	Deadline
Section 1 - Percentages			
Finding the % of an amount	3-5	Be able to accurately find a % of an amount using a calculator. In single or multiple steps.	6/6/20
Percentage Change	4-6	Be able to find % increase and decrease of amounts including reverse calculations.	13/6/20
Using Multipliers	4-6	Be able to identify and use the decimal equivalents of percentages including after a % increase or decrease.	20/6/20
Section 2 - Spreadsheets			
Spreadsheet Basics	N/A	To be able to create a small and easily readable spreadsheet, including formatting to make presentation of data simple.	27/6/20
Using Formula in Spreadsheets	N/A	To be able to create single and multiple formula in a spreadsheet to efficiently complete multiple calculations with the minimum of user input. Be able to identify what calculation a formula performs.	4/7/20
Spreadsheet Project	N/A	To create a single spreadsheet to perform a specific function to a given specification.	1/8/20
Section 3 – Substitution and Formulae			
Use of Calculator	3-6	Be able to accurately input large calculations into a calculator in a single step. Interpret formula into single calculations in a calculator. Use the answer from one calculation as an input to another.	8/8/20
Substitution	3-6	Substitute values into any given formula.	15/8/20
Rearranging Formula	4-6	Manipulate any given formulae algebraically in order to be used in a single calculation.	22/8/20

Reading list/Suggested Resources:

CGP Maths Revision Guides.

<https://www.mathsgenie.co.uk/gcse.html>

[Spreadsheet Basics video](#)

<https://hegartymaths.com/>

Equipment Required for September:

Pens – multiple colours

HB pencils

Highlighters

Scientific calculator – preferably a Cassio Fx...

For students who find the work challenging there will be several sources of help available including video resources, suggested websites and Q&A sessions. Resources will be distributed in Frog and all work returned should be done through Frog.

It is important that students spread the transition work out over the whole summer and do not rush it in the last week of the summer holidays. The idea behind this is to ensure students encounter the basics of Core Maths on a regular basis, this will keep their knowledge “fresh” in their minds and help them to avoid losing skills over the next few months. It will also help them to develop their ability to organise their own learning, this is a key skill required for the successful completion of any A/AS-level. The key to managing workload and maintaining standards is to do a little and do it often.

If you have any further questions please contact me via e-mail: pdurber@fromecollege.org. I look forward to seeing you (virtually or in school) in September,

Mr P Durber