

Sixth Form Handbook
Core Maths

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About the course

Core Maths is a new qualification that will allow you to continue to study Maths beyond GCSE!

This Level 3 qualification will support students into subjects such as Psychology, Sociology, Geography, or the sciences as well as vocational or technical courses.

This course will last just **1 YEAR**. Both exam will be in the summer term.

This course will contribute to UCAS points, with an A grade being worth 20 points towards your application. Each grade below is worth 4 points less – so B – 16, C – 12, etc.

How you will be assessed

First year

Paper 1: Critical analysis, personal finance, estimation, analysis of data

Paper 2: Option - Critical path and risk analysis

Tasks before September

Please complete the sheet below. These basic skills will be used a lot during the course, and we don't want you to forget them over the summer!

If you have forgotten how to do some of these then please make sure you look up how to do them. MyMaths, MathedUp – (have a look at the google classroom links from GCSE revision!).

Who can I contact for help?

There will be 2 classes starting in September, being taught by Mr Shepherd, Mrs Gutierrez, and Mr Rumbado.

Teacher	Can be found at
Mrs. Gutierrez	Room 32
Mr. McRill	Room 29
Mr. Miller	Maths office



Summer Task: Core Maths

1. Below is a table showing the numbers of students in year 12 on Maths courses at Poole High School.

Course	Further Maths	A-level Maths	Core Maths	Total
Number of students	8	24	48	80

Mr Cornish wants to do a survey for all new year 12 students doing Mathematics courses. He decides to do a stratified survey, of 20 students.

Show that he should ask 12 Core Maths students. How many Further Maths students should he ask?

- 2. Mr Miller manages to buy 25 bunches of bananas for £17.20. He sells 18 bunches for £0.90, 4 bunches for £0.50 and the rest he has to throw away. What was his profit/loss?
- 3. Mrs Gutierrez invests in some shares; buying 2000 shares at £1.40 each. A month later, she sold all of these shares getting £3180 back. What was her percentage profit?
- 4. Mr Cornish is shopping for trainers and sees a nice pair in a 20% off sale. They now cost £44. What was their original price?
- 5. Mr McRill invests £2700 into a savings account with the bank. The COMPOUND interest rate is 3% per anum (per year). How much will be in the account in 2 years time?
- 6. The table below gives information about the heights of 43 Sociology lecturers.

Height (h cm)	Frequency
160 < h ≤ 170	3
170 < h ≤ 180	16
180 < h ≤ 190	22
190 < h ≤ 200	2

Write down the modal class interval:	
V	Vrite down the modal class interval:

b)	The information in the table can not be used to calculate the exact value of the mean height.
	Explain why not.

c) Calculate an estimate for the mean height. Give your answer to 1 decimal place.

