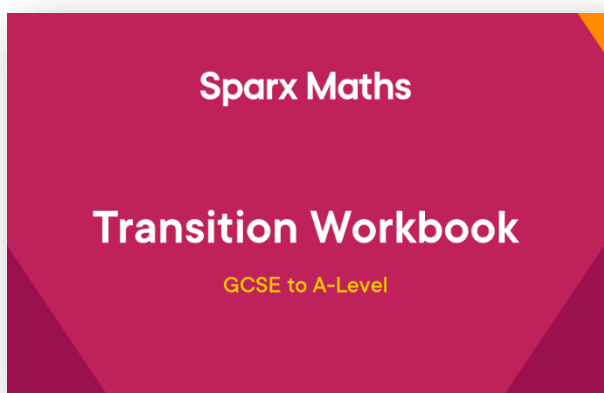




## Welcome to A level Mathematics at Plymouth High School for Girls

We use some of the sparx A level transition work to help prepare you for and ensure a strong start to the A level Mathematics course. *You will not need a login or any kind of paid subscription to access these resources.*



The activities are carefully designed to ensure that you have the sufficient skills in terms of breadth and depth. Problem solving tasks are linked for each topic.

A level Mathematics requires you to have a knowledge base of **FACTS and FORMULAE**, be **FLUENT** with application of basic skills, and to be **FLEXIBLE** when

applying your thinking to unseen and mixed problems.

Preparing for A level Mathematics will help you to feel confident and begin the course with success. You need to build on what you have learnt in GCSE Mathematics and ensure that your brain continues to think Mathematically over the Summer break!

NAME: \_\_\_\_\_

Being a successful A level Mathematician will require you to use these **habits of mind** to complete the summer transition work:



### **8. Applying past knowledge to new situations**

*Use what you Learn!* Accessing prior knowledge; transferring knowledge beyond the situation in which it was learned.



### **1. Persisting**

*Stick to it!* Persevering in task through to completion; remaining focused. Looking for ways to reach your goal when stuck. Not giving up.



### **6. Striving for accuracy**

*Check it again!*  
Always doing your best. Setting high standards. Checking and finding ways to improve constantly.



### **16. Remaining open to continuous learning**

*Learn from experiences!*  
Having humility and pride when admitting we don't know; resisting complacency.

**Use the QR code below** if you do not have a paper copy of the booklet – this is free, there is also an online version of the answers too.



Complete every section and use the answers at the back of the booklet (or online) to self-mark.

This is not a test – use any internet help resources, year 11 notes or the sparx codes (if you had an account in year 11) to access topics if you want extra practice.

### **What will happen with this work in September?**

You will have an opportunity to speak to teachers and ask for help when you start in September.

There will be an assessment during the third week of term in September linked to these 6 areas.

Teachers will have handed out the booklet at the taster sessions on the 14<sup>th</sup> July.

You will be expected to hand in your work booklet, showing that it has been completed and then self-marked. This will need to be handed by Friday 15<sup>th</sup> September 2023.

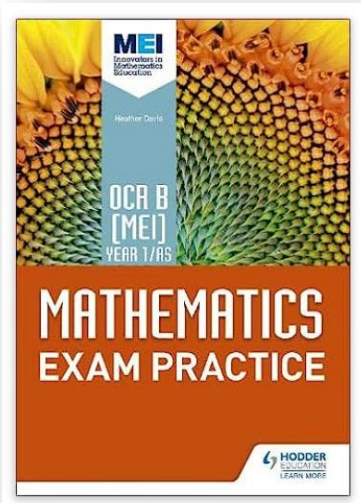
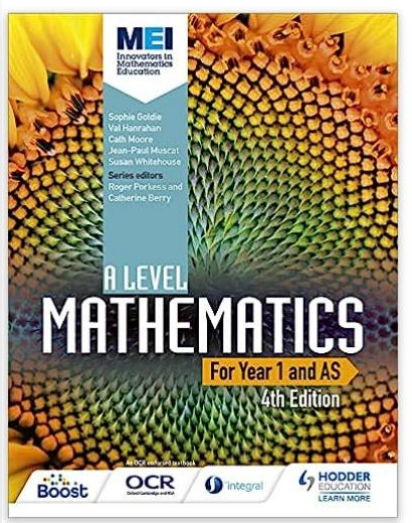
### **Equipment**

As well as completing the work you will need to ensure you are equipped for your course ready to start:

- 1 **Calculator:** A casio fx 991ex classwiz calculator – this is an essential purchase as it is required for every lesson, task and assessment. It should cost around £30. Speak to your PHSG tutor if you need support in making this purchase. It looks a lot like most GCSE calculators but it is more advanced. Check the code carefully when purchasing. If it costs less than £20, it is probably the wrong one.



- 2 **Stationery** - filing: Make sure you have an A3 lever arch file with dividers. You should buy lined paper, squared paper and graph paper (all A4) to be prepared for all types of lesson and task. Speak to your PHSG tutor if you need support in making this purchase.
- 3 **Stationery** – pencil case equipment: Make sure you have pens, pencils, ruler, eraser, highlighters, coloured pens for marking. Teachers of Mathematics will mark in orange at all times so simply avoid writing or self-marking in this colour please.
- 4 **OPTIONAL** – personal copy of the text book. Text books are often used in lessons and not used for compulsory independent study work. However, it is beneficial to have a copy for yourself for revision or extra practice work. You may want to consider this later and it is not something that is required. Here are the details for both the year 12 text book and the exam practice book that links to year 12 only. There are similar versions for the year 13 part of the course. These items are costly and copies are available to use at school, but they cannot be taken out of school.



*Have a great Summer and we look forward to teaching you in September*

*From the Mathematics team at Plymouth High School for Girls*