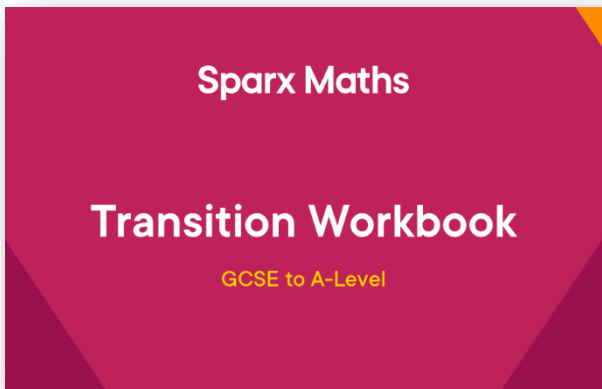


Welcome to A level Mathematics at Plymouth High School for Girls

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



Complete every section and use the answers at the back of the booklet (or online using the next QR code) 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 (week beginning 15th September 2025) linked to these 5 areas.

Teachers will have handed out the booklet at the taster sessions at PHSG.

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 in by Friday 12th September 2025**.

Equipment

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

1	Calculator: Your GCSE calculator will certainly suffice for the work in this booklet and for the first few lessons in September so please bring it to each lesson. We will discuss calculator options with the class in September which will include us talking to you about a RECOMMENDED (but not compulsory) graphical calculator. As these are costly, and casio are just updating their available models, we are not going to make these recommendations until the course has started. Where possible, we endeavour to make a bulk order as a school (using parent pay) to try and get a discount through casio. Again, this will be discussed in September, please do not make any purchases over the summer!
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. Folder checks happen each half term by your Maths teacher.
3	Stationery – pencil case equipment: Make sure you have pens, pencils, ruler, eraser, highlighters, coloured pens for marking. Teachers of Mathematics will always mark in orange so simply avoid writing or self-marking in this colour please.
4	OPTIONAL – Revision guides or text books that you may wish to purchase as optional extra resources will be recommended once the course is underway and at important check points (such as before a revision period). All essential materials will be provided by the school such as hand-outs and online accounts for homework (these will be setup and explained in September, nothing to do or access yet!)

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

From the Mathematics team at Plymouth High School for Girls