

KING EDWARD VI HANDSWORTH GRAMMAR SCHOOL FOR BOYS





START OF YEAR INFORMATION KS5

Introduction

In this short presentation, we will look at how we will work in Mathematics.

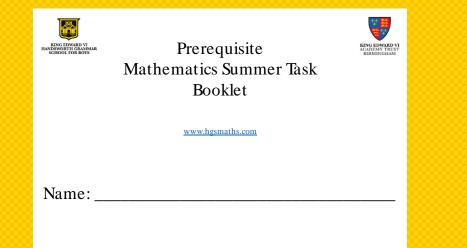
We will cover:

- Summer Work
- Booklets
- Exercise Book
- Equipment
- Homework
- Assessments
- Online Platforms HGS Maths, Dr Frost, and Active Learn
- Enrichment and Support
- Success
- Survey

Summer Work (Year 12)

Summer Work (Year 13)

- You should have completed the summer task booklet. Remember, you will have a baseline assessment on this soon.
- If you haven't got a copy of the booklet or have lost it, you will need to get another one. The booklet can be accessed on the HGS Maths website.

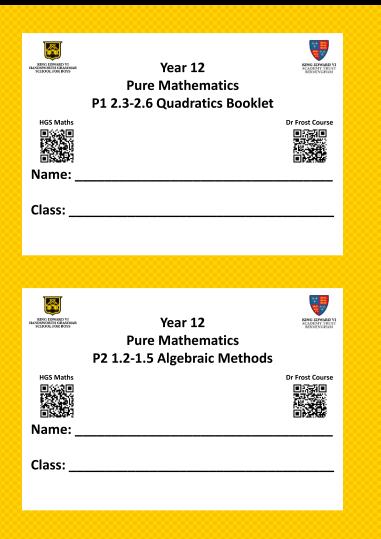


 You should have completed the task on Dr Frost labeled as "Year 13 Preparation Work Summer 2024". Remember, this contains questions on Year 12 topics, which are vital for understanding this year's content.

ТАЅК	SET DATE	DUE DATE
Year 13 preparation work summer 2024 All of 12C/Ma2, All of 12C/Ma3, All of 12CFM/Ma, All of 12E/Ma1, All of 12E/Ma2, All of 12E/Ma3 Homework	Jul 15th	Sept 2nd 6:00am

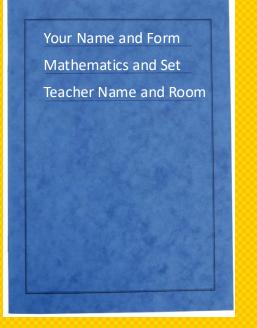
Booklets

- All your notes and examples will be completed in a printed booklet for each chapter.
- The booklets must be kept neat and up to date.
- You will take the booklet home and must bring it to every lesson.
- It is recommended that you buy a folder to keep these in, as well as any other paper or worksheets printed for you.
- An electronic version of the booklets will be available on your OneNote Class Notebook so you can stay up to date.



Exercise Book

- This is your book for all classwork and homework exercises. You should keep this book neat.
- All classwork and independent work is done at the front of the book.
- All **homework** is done at the **back** of the book.
- All marking is done through self or peer assessment.
- You should always include:
 - Dates
 - Headings
 - Margins
- You will take this book home and must bring it to every lesson.



Equipment

- As well as your booklet and exercise book, you should bring the following equipment to every lesson:
 - 2 pens (ideally black)
 - 1 red or green pen
 - Pencil
 - Ruler
 - Sharpener
 - Eraser
 - Calculator (Casio fx-991CW)
- The calculator can be purchased from the school. Details will be posted on Microsoft Teams.



$w\,w\,w.\,h\,g\,s\,m\,a\,t\,h\,s.\,c\,o\,m$

Homework

- You will receive 3 homeworks per week. They will be recorded on Satchel One.
- One homework will be a retrieval task set online on Dr Frost for the entire year group. Details will be confirmed on Microsoft Teams.
- The other 2 homeworks are set by your classroom teachers. This could be another Dr Frost task or an exercise from the textbooks.
- You must always show your working out at the back of your blue exercise book for any Dr Frost homework.

- If you score 100% on a Dr Frost homework, you will be awarded a house point.
- If you fail to complete your homework, you will be sanctioned (our policy is shown below).

Stage	Sanction	Contact
1	Verbal warning/reprimand	Email FT/Parent
2	Short teacher detention (5 minutes)	Email FT/Parent
3	Longer teacher detention (break or 15 minutes after school)	Email FT/Parent
4	Department detention (30 minutes)	Email FT/Parent and HoY
5	Department detention (45 minutes)	Call home + Email FT/HoY
6	Department detention (60 minutes)	Call home + Email FT/HoY
7	Whole school – get parents in	HoD/HoY meeting

Assessments

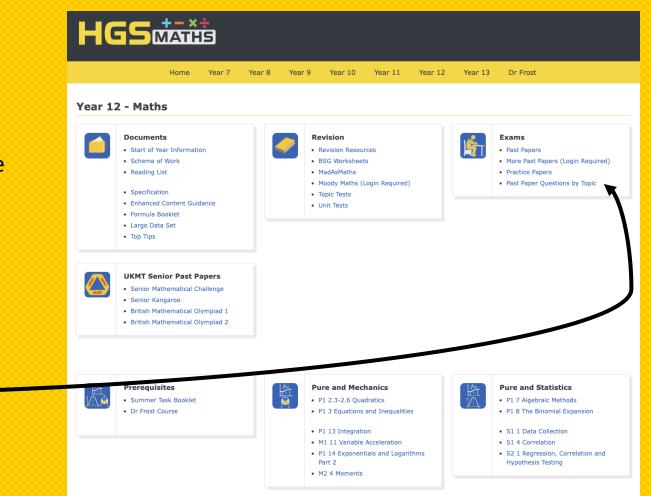
- You will have entrance/exit tickets in class to check your understanding of current or previous work.
- You will have formal assessments throughout the year.
- There will also be an end of year exam.
- The scheme of work and assessment schedule is shown on the right-hand side.

Year 13

Teacher 1 - Pure and Mechanics		Teacher 2 -	Teacher 2 - Pure and Statistics				
Pure 1 and Pure 2		Pure 2					
Chapter 7 - Algebraic Methods and Chapter 1 - Algebraic Methods Proof	P1 7.4 - 7.5 & P2 1.1	Chapter 1 -	Algebraic Methods	1.2 - 1.5			
Pure 2		Pure 2					
Chapter 2 - Functions and Graphs	2.1 - 2.7	Chapter 6 -	Trigonometric Functions	6.1 - 6.5			
DEPT INTERVENTION							
Pure 2		Pure 2					
Chapter 3 - Sequences and Series	3.1 - 3.8	Chapter 7 -	Trigonometry and Modelling	7.1 - 7.7			
Pure 2		Pure 2					
Chapter 4 - Binomial Expansion	4.1 - 4.3	Chapter 8 -	Parametric Equations	8.1 - 8.5			
CA1 1st Mock w/c 25/11 PR1							
Pure 2		Statistics 1					
Chapter 9 - Differentiation	9.1 - 9.10	Chapter 6 -	Statistical Distributions	6.2 - 6.3			
Pure 2		Statistics 2	Statistics 2				
Chapter 12 - Vectors	12.1 - 12.4	Chapter 3 -	The Normal Distribution	3.1 - 3.7			
Mechanics 2		Statistics 1					
Chapter 6 - Projectiles	6.1 - 6.4		Hypothesis Testing	7.1 - 7.4			
CA2 2nd Mock w/c 03/03 FR							
Mechanics 2		Pure 2					
	7.1 - 7.6		- Integration	11.1 - 11.11			
Mechanics 2		Pure 2					
Chapter 8 - Further Kinematics	8.1 - 8.5	Chapter 10	- Numerical Methods	10.1 - 10.4			

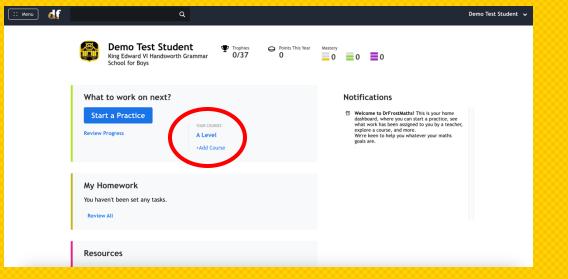
Website

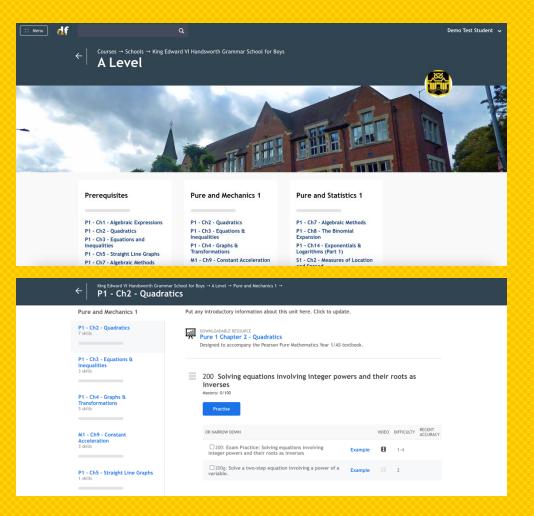
- The Documents section contains the scheme of work, a reading list of mathematical books, the specification, and the formula booklet.
- The Revision section contains resources with links to PowerPoints, videos, questions by topic, and practice papers. It also includes BSG worksheets, topic tests, and unit tests for you to use.
- The Exams section contains all past papers and practice papers.
- The recommended resource for past paper questions is the following link.
- The booklets can be accessed using the links in the boxes at the bottom of the page.



Dr Frost

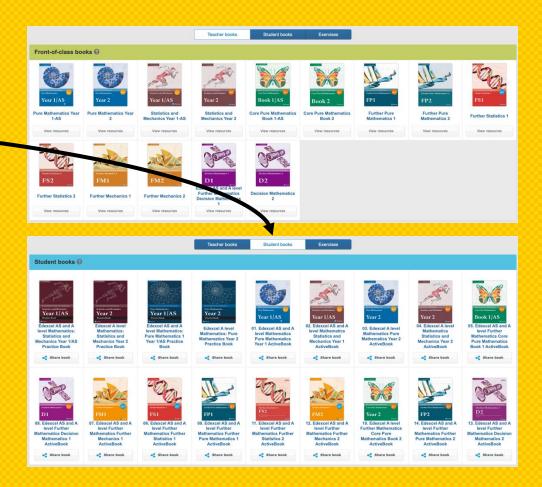
- We have uploaded our curriculum to Dr Frost so that you can easily do independent work based on what you cover in lessons.
- In each course, you can click through to the chapter and topic you want to practice and do key skills or exam questions.





Active Learn

- You will find your online A Level textbooks here.
- Extra practice books are available under the "Student Books" tab.



Enrichment

Support

There are two break time clubs running for Mathematics. These will be on Tuesday.

ROOM 27

Prepare for the Junior, Intermediate, or Senior UKMT Challenges by:

- Practising questions from the challenges
- Tackling other advanced problem-solving tasks

ROOM 28

Get help with:

- Dr Frost retrieval homework
- Past paper questions
- Any maths topic you don't understand

You can also use this time and space to just do maths.

Details will be confirmed on Microsoft Teams.

Success

- You are obviously capable of achieving a top grade, as you met the entry requirements to study Mathematics at a grammar school.
- Some of you may not have needed to work too hard to achieve your 7s, 8s, or 9s because you are very talented mathematicians. Not itself a bad thing!
- However, all of you will need to work consistently throughout your A Levels, no matter who you are, because they are significantly more challenging.
- Practice is key, and you need plenty of it! YOU MUST COMPLETE ALL TEXTBOOK EXERCISES!

Whatever you do, DO NOT FALL BEHIND. Don't think you can cram it all in at the last minute. Many like you have tried at GCSE and SUCCEEDED...but then tried at A level and FAILED!

THE 6 P'S FOR SUCCESS ARE:

- PRACTICE
- PERSEVERANCE
- PRECISION
- AND PRACTICE, PRACTICE, PRACTICE



Survey

If you could have told yourself ONE thing at the beginning of year 12 to have made a better start to A level Maths, what would it have been?

Responses from last year's year 13 students:

- Do every single textbook exercise as homework as soon as it is set
- Try to do past paper questions as soon as you can
- If you don't understand something, ask someone and try to watch YouTube videos that explain topics you struggle with
- Pre-read content before the lesson
- Revise more consistently and more often
- DO NOT underestimate the jump from GCSE to A level, it takes much more hours of work
- Start on entrance exams earlier, e.g., STEP, ENGAA, etc.