Maths @ WBS Year 10 Roadmap

Subject Aim: To develop confidence with the wide breadth of topics within GCSE Mathematics. A more dedicated focus on assessment and GCSE exam questions. Students begin to develop understanding of the key links between different areas of Mathematics.

TT Promotion

Autumn Term

Spring Term

Summer Term

HT 1 Linear Equations & Inequalities

- Understanding, Forming & Solving
- Graphical Representations
- Algebraic Problem Solving

HT 2 Measures & Accuracy

- Speed, Density & Pressure
- Upper & Lower Bounds
- ***Making Big Estimates***

HT 2-3 Circles & Constructions

- Loci, Arcs, Sectors & Segments
- Circle Theorems

HT 3 Ratio & Proportion

- Compound & Simple Interest
- Reverse & Repeated Percentages
- ***Value for Money***

HT 4 Factors, Powers & Roots

- LCM & HCF
- Surds & Rationalising the Denominator

HT 4-5 Graphs & Simultaneous Equations

- Gradients & Intercepts
- Sketching & Interpreting Graphs

HT 5 Working in 3D

- Cones, Pyramids, Spheres & Frustums

HT 5-6 Pythagoras, Trig & Vectors

- Understanding Vectors
- Advanced Trigonometry

HT 6 Calculations 2

- Working with Standard Form
- Manipulating Powers

Assessment

There are 4 Schemes of Learning within Year 10 Maths, and the one which you follow is dictated by the set that you are in.

SUPPORT	FOUNDATION	INTERMEDIATE	HIGHER
Designed to consolidate existing content, plug any gaps in knowledge, and run alongside our Entry Level Roadmap for Year 10.	Aimed at building up confidence with problem solving questions and consolidating knowledge of the fundamental GCSE skills.	Bridging the gap between the two GCSE tiers, with the aim of both supporting and then pushing students towards their potential.	Taking all opportunities to stretch students by developing clarity of thought and risk-taking in their mathematical approaches.
(Set 6)	(Set 4-5)	(Set 3)	(Set 1-2)

Your teacher will always start each Unit with the Support content and then stretch your group as far as they can in the time available.

At the end of each Unit, you will take the assessment which is relevant to your set. There will be a review lesson to follow up after it has been marked. You will then be set a review question in a future lesson which will be targeted at the individual areas where you have struggled.

The average of these tests, together with a Christmas exam and an end of year mock, will inform the setting for Year 11.

Homework and Revision

- Homework includes online tasks that are reviewed in class.
- Feedback is given on our online systems and in written form.
- Revision clocks and practice questions for assessments are published on Brightspace.
- Each assessment is focused on the content of that Unit but will include skills previously learned as well.
- Completed and assessed assessments will be placed into your progress folder.

Enrichment Themes

In Year 10, enrichment opportunities include the Intermediate Maths Challenge and an opportunity to attend the Maths Inspiration, either in person or virtually.

Topics outside of standard GCSE content are in red on the left

There is a weekly drop in session on a Monday after school.

Where Next?

In Year 11, achievement in GCSE Mathematics becomes the core focus. Some challenging final topics are introduced such as Quadratic Equations, Conditional Probability and Inverse Proportion. Intervention is utilised to drive students towards their true potential in the subject.