

Maths @ WBS Year 9 Roadmap

Subject Aim: To navigate the transition from Key Stage 3 to GCSE Mathematics.

Students will begin to gain familiarity with GCSE style exam questions and develop their problem-solving skills.

		Curriculum and Assessment								
TTP Summer Term	FUNCTIONS & LINEAR GRAPHS	<p>Our Scheme of Learning is split into two parts: Foundation and Higher. A third strand called Intermediate consists of the more accessible parts of the higher tier. Your teachers will start with the more accessible parts of the Foundation content and stretch your group as far as they can in the time available. The more challenging parts of each tier are marked by a star in our Scheme of Learning. You will have regular assessments, covering several units, building up your experience with cumulative exams and well as encouraging your retrieval of previously studied topics.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: #FFFF00;">Foundation</th> <th style="background-color: #FFD700;">Intermediate</th> <th style="background-color: #90EE90;">Higher</th> </tr> </thead> <tbody> <tr> <td style="background-color: #FFFF00; vertical-align: top;"> Aimed at building confidence with problem solving questions and developing security with the more challenging KS3 content. </td> <td style="background-color: #FFD700; vertical-align: top;"> Bridging the gap between the two GCSE tiers, studying the more accessible part of the Higher GCSE content to push students towards their potential. </td> <td style="background-color: #90EE90; vertical-align: top;"> Taking all opportunities to stretch students by developing clarity of thought and risk-taking in their mathematical approaches. </td> </tr> </tbody> </table>			Foundation	Intermediate	Higher	Aimed at building confidence with problem solving questions and developing security with the more challenging KS3 content.	Bridging the gap between the two GCSE tiers, studying the more accessible part of the Higher GCSE content to push students towards their potential.	Taking all opportunities to stretch students by developing clarity of thought and risk-taking in their mathematical approaches.
	Foundation				Intermediate	Higher				
Aimed at building confidence with problem solving questions and developing security with the more challenging KS3 content.	Bridging the gap between the two GCSE tiers, studying the more accessible part of the Higher GCSE content to push students towards their potential.				Taking all opportunities to stretch students by developing clarity of thought and risk-taking in their mathematical approaches.					
<ul style="list-style-type: none"> Plotting linear/ non-linear graphs Read and use graphs Coordinate geometry 										
Autumn Term	INTRO TO STATISTICS									
	<ul style="list-style-type: none"> Types of data Averages & range 									
	<ul style="list-style-type: none"> Representing data 									
	CALCULATION METHODS									
	<ul style="list-style-type: none"> Percentages Four operations with Fractions and Decimals 									
Spring Term	LINEAR GRAPHS AND GRADIENT									
	<ul style="list-style-type: none"> Plotting linear graphs $y = mx + c$ 									
	TRANSFORMATIONS									
Summer Term	<ul style="list-style-type: none"> Translating, Reflecting, Rotating & Enlarging Shapes Describing Transformations 									
	RATIO & PROPORTION									
	<ul style="list-style-type: none"> Converting between Units Solving problems involving Ratio 									
	ANGLES & POLYGONS									
Summer Term	<ul style="list-style-type: none"> Interior & Exterior Angles Similar Shapes & Tessellations 									
	PYTHAGORAS & TRIGONOMETRY									
	<ul style="list-style-type: none"> Pythagoras' Theorem Right Angled Trigonometry 									
	PROBABILITY									
Summer Term	<ul style="list-style-type: none"> Experimental Probability Theoretical Probability Combinatorics 									
	PROBABILITY									
Where Next?		Enrichment								
<p>Year 10 is the real beginning of GCSE Mathematics. New topics include Probability, Simultaneous Equations and Advanced Trigonometry.</p>		<p>In year 9 enrichment forms a central part of the WBS maths curriculum, starting with the "average student" at the start of the year.</p> <p>Students who wish to further develop their Maths understanding are encouraged to attend Problem Solving Club.</p>								