

Maths @ WBS Year 8 Roadmap

Subject Aim: To further explore and understand the fundamental elements of mathematics. Development of skills learned in Year 7. To gain familiarity with data algebraic manipulation, geometrical reasoning and data analysis.

TTP Summer Term	SHAPE, AREA & PYTHAGORAS	Curriculum and Assessment		
	• Properties of Quadrilaterals • Areas of 2D Shapes • Introduction to Pythagoras	Our Scheme of Learning is split into two parts: Core and Advanced. A third Support strand consists of the more accessible elements of the Core Scheme of Learning. Your teachers will start with the more accessible parts of 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.		
Autumn Term	FDP			
	• Converting FDP • Percentage of an Amount & Change			
	ALGEBRAIC EXPRESSIONS			
	• Collecting Like Terms • Calculating with Algebraic Fractions • Expanding & Factorising			
	ANGLES	Support	Core	Advanced
	• Angle Notation & Parallel Lines • Triangles & Quadrilaterals			
Spring Term	FORMULAE	Aimed at building confidence and enabling all students to make progress with additional encouragement and support.	Enabling students to consolidate their existing knowledge as well as stretch themselves towards deeper thinking.	Taking all opportunities to challenge students' mathematical thinking and problem solving skills.
	• Writing & Rearranging Formulae • Substitution			
	AREA, VOLUME AND 3D			
	• Properties of 3D Objects • Surface Area • Volume of Prisms			
	SOLVING EQUATIONS			
	• Solving a variety of equations • Forming equations from context	Homework and Revision		
Summer Term	SEQUENCES & NUMBER THEORY	Homework is set and completed on Dr Frost. You will have a feedback task in lesson based on how your class did before your next assessment. Our Scheme of Learning is on Dr Frost to help you revise. Prior knowledge checks, progress checks and test reviews will help you identify your strengths and work on the areas you find more challenging. Retrieval starters give you regular opportunities to recall topics previously learnt.		
	• Types of Number • Identifying types of Sequences • Finding the nth term			
	FUNCTIONS, COORDINATES & GRAPHS	Enrichment		
	• Types of Number • Identifying types of Sequences • Finding the nth term			
Where Next?		In Year 8 enrichment opportunities include taking part in the Junior Maths Challenge in the Spring Term, as well as exploring codebreaking activities and their mathematical links. Students with a passion for maths are encouraged to attend Problem Solving club to share their enthusiasm and develop their mathematical reasoning skills.		
Year 9 is a transition year between Key Stage 3 and GCSE Mathematics. The skills you have acquired in Years 7 and 8 are developed and extended through deeper problem solving and regular exposure to actual exam questions. New topics include using formulae, studying prisms and solving problems involving sequences.				