Mathematics Overview

Threads	Number	Ratio and Proportion	Algebra	Geometry	Statistics	Probability

Year 10	**Autumn 1**	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Summary	Pupils focus on basic numeracy skills BIDMAS, negative numbers, indices, rounding and operations with and without using a calculator. Conversion between fractions, decimals and percentages	Extending fraction, decimal and percentage work focusing on real world application such as profit, loss, interest and VAT	Pupils focus on data, being able to draw and interpret diagrams and can calculate summary statistics on that data	Pupils learn to calculate area and perimeter on simple and compound shapes Pupils can plot coordinates and work with simple linear equations	Pupils learn the basic angle rules and hence can identify angles given.	Pupils know the 4 transformations, can describe them and can move shapes using them.
	Introduction to ratio, simplifying, converting to fractions and sharing in a given ratio		Pupils learn to describe and calculate probability from a variety of lists, charts and diagrams.		Pupils know what factors and multiples are and can identify them including within problem solving	Revision of year 10 content for the end of year exams and consolidation for entry into year 11.
Assessment – pupils to sit EL exam papers when they arrive at Olive Tunbridge Wells. Functional skills exams are sat on an individual basis when the teacher		End of Term Assessment		Year to Date Assessment		End of year exams Time to complete entry level papers and functional skills exams still outstanding

assesses pupil as academically ready						
Intent All terms with a focus on literacy with a focus of practical activities to inspire the enjoyment of studying mathematics	Pupils know and can apply basic numeracy skills used in everyday life giving them mathematical confidence.	Deepening knowledge from previous learning and extending to real life everyday use	Pupils gain practical skills to analyse data presented to them being able to spot misleading statistics to use in the real world.			Embedding prior knowledge learnt and skills developed to take with them into year 11 All pupils to achieve accreditation at an appropriate level

Threads	Number	Ratio and Proportion	Algebra	Geometry	Statistics	Probability

Year 11	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Summary	Revision of number work, fractions, decimals and percentages to consolidate year 10 learning	Extending area and volume to more complex shapes and circles	Algebra focussing on simplifying, expanding, solving, substituting and factorising	Vectors, similarity, congruence, bearings and right angles triangles	Revision for the GCSE exam with a focus of filling any knowledge gaps identified	Revision for the GCSE exam with a focus of filling any knowledge gaps identified
	Pupils can share in a given ratio, solve problems with ratio and work with proportion					
	Real life graph and unit considerations – various threads	Introduction to algebra Revision and exam practice in preparation mock 1				
Assessment - pupils to sit EL exam papers when they arrive at Olive Tunbridge Wells. Functional skills exams are sat on an individual basis when the teacher assesses pupil as academically ready		Mock 1	Last attempt at functional skills paper	Mock 1	GCSE Exams	GCSE Exams

Intent All terms with a focus on literacy with a focus of practical activities to inspire the enjoyment of studying mathematics	Developing a well-structured curriculum aiming to gain a deep level of knowledge and understanding with the focus of building confidence		Using prior knowledge to extend to algebra skills and problem solving Aim for all students to achieve accreditation to their level of ability		A focus of pupils to gain accreditation at the GCSE level	A focus of pupils to gain accreditation at the GCSE level