

Mathematics Curriculum Plan Overview

Year 11 GCSE plan overview

Term	Topic	Learning	How can parents' best support	
Autumn 1	Basic number Collecting and representing data Fractions - 4 operations	Number - Negative numbers, index rules, negative indices, standard form, BIDMAS, Describing factors and multiples, Highest Common Factor Lowest common Multiple, using Venn diagrams to find HCF LCM Statistics - Bar charts and pictograms including dual bar charts. Fractions - simplifying fractions, equivalent fractions, 4 operations with fractions	Continued practice with times tables supports work on fractions and ratio. Look at data in the media and how it is used/misused.	
Assessment:	Self assessment and topic tests			
Autumn 2	Basic Algebra Sequences Rounding Coordinates	Algebra - Generating sequences given a rule. continuing a numeric or pictorial sequence given a rule. Linear sequences - term to term and position to term rules. Fibonacci type sequences. Simplifying expressions. Solving algebraic equations Rounding - To nearest 10, 100, 1000. Round to 1 and 2 decimal places, whole numbers, given significant places. Coordinates - 4 quadrant grid reading.	Encouragement to count in sequences, to identify the counting to a counting sequence. Counting different denominations of money. Rounding amounts of money, prices, etc. to the nearest pound, ten pound, hundred pound, thousand etc. Practice reading coordinates on a grid.	
Assessment:		nd topic tests (Mock Exams November)		
Spring 1 Assessment:	Basic Decimals Basic Percentages Area and Perimeter Hot Spot - Measures Self assessment a	Number - percentages, basic percentages as proportion of 100, converting percentages to decimals Geometry and Measures - area and perimeter of rectangles and squares and compound shapes made with rectilinear shapes, area of quadrilaterals including trapeziums and parallelograms, area of triangles and polygons made from triangles	Exposure to working with decimals. e.g. shopping item prices. Discussing percentages out of 100. Increasing and decreasing by a percentage. Calculating the area/perimeter of places found around the home Use different measurements in real life settings e.g. cooking	
Assessment.	Sen assessment a	Geometry and measures - naming parts of	Name and identify parts of a circle.	
Spring 2	Circumference and area of a circle Ratio and Proportion Basic Probability Hot Spot - Time	circles, finding circumference and area of circles, area of sectors and segments Ratio and proportion - simplifying ratios finding similar ratios, share in a given ratio, use unitary method for calculating ratios Probability - calculate the probability of single events happening using fractions/decimals/percentages, calculate the probability of something "Not" happening, use AND and OR rule with probability in treed diagrams, understand mutually exclusive and independent event	Listen to the circle song and google and discuss pi Practice reading recipes and serving suggestions. (Serves 2 people, calculate how much would we need for 3 people 4 people 5 people?) Discussing the chance of certain events happening. Weather forecasts for example. There is a 35% chance of rain today so therefore there must be 65% it won't rain.	

		Look at timetables and practice reading digital and analogues times		
Self assessment and topic tests				
		Look at past papers and identify areas for revision Visit BBC Bitesize and review content for AQA GCSE Maths https://www.bbc.co.uk/bitesize/examspecs/z8sg6fr		
Self assessment and to				
Exam Prep Equations 2D Representations of 3D shapes Hot Spot Using a calculator	Geometry and Measures - 2D representation of 3D shapes. Plans and views on drawings, calculating volume of 3D shapes, nets and volume and surface area - including prisms Exam revision - Practice questions from calculator papers	Use of a scientific calculator. Answering wordy multi-step maths questions.		
	Exam Prep Equations Plans and views Scale drawings vol Self assessment and telegrations 2D Representations of 3D shapes Hot Spot Using a	Algebra - solve 1 and 2 step linear equations, solve equations with unknowns on both sides, solve equations involving brackets, solve quadratic equations by factorising, using the formula or completing the square. Equations Plans and views Scale drawings Geometry and Measures - Pythagoras Theorems Scale drawings Geometry and Measures - 2D representation of 3D shapes - plans and views on drawings calculating volume of 3D shapes, nets and volume and surface area - including prisms Self assessment and topic tests (Paper 1 examination May) Exam Prep Equations 2D Representations of 3D shapes Figurations 2D Representations of 3D shapes Hot Spot Using a calculator Exam revision - Practice questions from		