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ABINGDON
HOUSE SCHOOL

Curriculum map overview for Year 11H Maths 2025/26

Term ***(Weeks)***	***Topic/Unit (weeks)***	***Key Objectives***	***Type of assessment***
Week 1 (First full week)	***Initial evaluation***	This is the time to establish routines with the children, fostering positive relationships, and gaining a clear understanding of their individual learning needs.	
Autumn 1 (7)	***Linear Graphs (2)***	To understand and be able to: ● Equations of lines parallel to the axes ● Plot straight line graphs ● Interpret y=mx + c (R) ● Find the equation for a graph from a point ● Find the equation for a line from a graph ● Equations of a straight line given a point and a gradient ● Equation of a straight line graph given two points	***End of unit assessment*** ***GCSE Fortnightly Past paper Non-Cal***

		• Determine if a point is on a line • Algebraic Fractions - Adding and Subtracting • Algebraic Fractions - multiplying and dividing	
	Perpendicular Lines (1.5)	To understand and be able to: • Solve linear simultaneous equation graphically • Explore perpendicular lines • Find the equation of perpendicular lines • Calculate with pressure and density • Understand and user surds • Calculate with surds • upper and lower bounds	***End of unit assessment*** ***GCSE Fortnightly Past paper Calculator***
	Non-Linear Graphs (1.5)	• Plot and Read from quadratic graphs • Plot and read from cubic • Plot and read from reciprocal graphs • Recognise graph shapes • Identify and interpret roots and intercepts of quadratics • Identify and use exponential graphs • Find and use the equation of a circle center. • Find the equation of the tangent to any curve	***End of unit assessment*** ***GCSE Fortnightly Past paper Non-Calculator***
	Using Graphs (2)	To understand and be able to: • Construct and interpret conversion graphs • Construct and interpret other real life graphs • Interpret distance time graphs • Construct distance time graphs • Construct and interpret speed/time graphs • Construct and interpret piece-wise graph • Recognise Interpret graphs that depict Direct and indirect proportions.	***End of unit assessment*** ***GCSE Fortnightly Past paper Calculator***

		• Find approximate solutions to equations using graphs. • Estimate the area under a curve (H).	
Autumn 2 ***(7)***	***Expanding and factorising (2)***	To understand and be able to: • Expand and factorise a single bracket. • Expand Binomials • Factorize quadratic expressions • Factorise complex quadratic expressions • Solve equations equal to 1 • Self quadratic equations by factorization • So complex quadratic equation by factorization • Complete the square • Solve quadratics using the quadratic formula.	***End of unit assessment*** ***GCSE Fortnightly Past paper Calculator***
	Change the Subject (2)	• Solve linear equations • solve linear inequalities • Form and solve equations and inequalities in the context of shape • Change the subject of a simple or known formula • Change the subject of a complex formula • Change a subject where the subject occurs more than once • Change the subject by iteration	
	Functions (2)	• Use function machines (R) • substitute into expressions and formula • Use function notation • Work with composite functions (H) • Work with inverse functions (H) • Graphs of quadratic functions • Solve quadratic inequalities (H) • Understand and use trigonometric functions good stuff	
	Multiplicative Reasoning (1)	• Use scale factors (R) • Understand direct proportion • Construct complex direct proportion equations (H) • Understand inverse proportion • Construct inverse proportion equations	

		(H) ● Ratio problems (R)	
Spring 1 (6)	***Geometric reasoning (2)***	● Angles at a point (R) ● Angles in parallel lines and shapes (R) Exterior and interior angles of polygons (R) ● Proving geometric facts ● Solve problems involving vectors (R) ● Review of circle theorems (R) ● Circle theorem - angle between radius and chord ● Circle theorem - angle between radius and tangent ● Circle theorem - two tangents from a point ● Circle theorem - alternate segment theorem ● Review Pythagoras' theorem and using trigonometric ratios (R)	***GCSE Weekly Past paper Calculator***
	Algebraic Reasoning (2)	● Simplify complex expressions ● Find the rule for the nth term of a linear sequence R ● Find the rule for the nth term of a quadratic sequence ● Use rules for sequences ● Solve linear simultaneous equations R ● Solve simultaneous equations with one quadratic (R) ● Formal algebraic proof ● Inequalities in two variables	
	Revision Transformation and constructing (2)	● Perform and describe line symmetry and reflection ● perform and describe rotation and rotational symmetry ● perform and describe translations of shapes ● perform and describe enlargements of shapes ● perform and describe negative enlargements of shapes ● Identified transformation of shapes ● Perform and describe a series of	

		transformation of shapes. ● identify invariant points and Lines. H ● Perform standard constructions using ruler and projector or ruler and compasses. R ● Solve loci problems. ● Understand and use trigonometrical graphs H ● Sketch and identified translations of the graph of a given function H. ● Sketch and identify reflections of the graph of a given function. H	
Spring 2 (6)	***Revision Listing and Describing (2)***	● Work with organized list ● use the product rule for counting H ● sample spaces and probability R ● complete and use Venn diagrams R ● construct an interpret plans and elevations R ● Use data to compare distributions R ● interpreting scatter graphs R	
	Volume Area and Surface (2)	● Use number sense ● Solve financial maths problems ● Break down and solve multiple step problems ● Plans and elevations ● Surface area of cube cuboids ● Surface area of triangular prisms and cylinders ● Volume of cubes, cuboids, ● Volume of prisms cylinders and spheres	***See year 10 Non-calculator methods***
		● Express a number as a product of its prime factors ● Find the HCF and lcm of a set of numbers ● Describe and continue arithmetic and geometric sequences ● explore other sequences ● describe and continue sequences involving surds ● Find the rule of the nth term of a linear sequence ● from the rule of the nth term of a quadratic sequence.	

Summer 1 (5)		Past papers and filling gaps Preparation for paper 2 and 3	
Summer 2 (6)			