ABINGDON
HOUSE SCHOOL

Curriculum map overview for Year 10H 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)	***Equations Inequalities and formula (2)***	• Solve equations • solve fractional equations • solve equations with unknowns on both sides • Solve inequalities • Represents solution to inequalities using set notation R • Change the subject of a known formula • Change the subject of a simple formula • Changes subject of a complex formula	***End of unit assessment***

		• Changes the subject where the subject appears more than once. E	
	Quadratic Expressions and Equations (3)	• Expand a double brackets • Expand the triple brackets • Factorize quadratic expressions • Factorize more complex quadratic expressions E • Difference of two squares • Solve quadratic equations equal to 0 • Solve quadratic equations by factorization • Solve more complex quadratic equations by factorization E • Complete the square • Solve quadratic equations by completing the square E • Complete the square with more complex quadratic expressions E • Solve quadratic equations using the quadratic formula	***End of unit assessment***
	Percentages (2)	• Percentage of an amount • Percentage increase and decrease • Repeated percentage change • Express one number as a fraction or a percentage of another • Express a change as a percentage • Find the original value after a percentage change • simple interest • compound interest • choose appropriate methods to solve percentage change	***End of unit assessment***
Autumn 2 ***(7)***	***Ratio and Scales (2)***	• Equivalent ratios • Share in a ratio (given total, one part or difference)	***End of unit assessment***

		• Link ratios and fractions • Combine a set of ratios • Share in a ratio (algebraically) Solve problems with ratio and algebra • Ratios and scales	
	Fractions (2)	• Add and subtract fractions • Multiply and divide fractions • Solve problems with fractions • Add and subtract algebraic fractions • Multiply algebraic fractions • Divide algebraic fractions • Simplify algebraic fractions • Add and subtract more complex algebraic fractions E • Multiply and divide more complex algebraic fractions • Solve equations with algebraic fractions E	***End of unit assessment***
	Non-Calculator Methods (1)	• Order of operations • Related calculations • Solve multiple steps problems • Convert recurring decimals to fractions • Convert more complex recurring decimals to fractions E	***End of unit assessment***
	Straight line Graphs (2)	• Draw straight line graphs • y = mx + c • Find the equation of a line from a graph • Represents solutions to a single inequalities on a graph • Represent solutions to multiple inequalities on a graph E • Find the midpoint of a line segment • Equations of a straight line graph given one point and a gradient • Equations of a straight line graph given two points • Equations of perpendicular lines • Real life straight line graphs	***End of unit assessment***
Spring 1 (6)	***Probability (2)***	• *Find the probability of a single event* • *Use the property that probabilities sum to 1*	***End of unit assessment***

		• *List and count outcomes* • *Relative frequency* • *Sample spaces for 1 or more events* • *Two-way tables and frequency trees* • *Independent events* • *Tree diagrams for independent events* • *Tree diagrams for dependent events* • *Conditional probability (Tree diagrams) (E)*	
	(1.5)	• Round to decimal places and significant figures • Estimate answers to calculations • Use of a calculator • Error intervals (including truncation) • Upper and lower bounds	***End of unit assessment***
	(2.5)	• Perimeter of a 2-D shape • Area of a 2-D shape • Area and circumference of a circle • Arc length and perimeter • Area of a sector • Volume of a prism • Volume of a cylinder • Nets • Surface area of a prism • Surface area of a cylinder	***End of unit assessment***
Spring 2 (6)	***Represent and interpret data (2)***	• Averages and range • Averages from an ungrouped frequency table • Mean from a grouped frequency table • Averages from a grouped frequency table • Use data to compare distributions • Types of data • Sampling • Capture and recapture • Scatter graphs • Interpolation and extrapolation	***End of unit assessment***
	Non-Linear Graphs (2.5)	• Quadratic graphs • Intercepts and roots of quadratic graph • Turning point • Cubic graphs • Approximate solutions to equations using graphs • Equation of the tangent to a curve	***End of unit assessment***

		• Estimate the area under a curve (E) • Equation of a circle • Equation of a tangent to a circle (E)	
Summer 1 (5)	***Angles (2)***	• Angles around a point, on a straight line and vertically opposite • Angles in triangles and quadrilaterals • Exterior angles of any polygon • Interior angles of any polygon • Solve problems with angles in polygons • Alternate, corresponding and co-interior angles • Solve problems with angles in parallel lines • Solve problems with angles and algebra • Prove geometric facts (E)	***End of unit assessment***
	Graphs and Diagrams (3)	• Pie charts • Time-series graphs • Frequency polygons • Stem-and-leaf diagrams • Draw histograms • Interpret histograms • Draw cumulative frequency diagrams • Interpret cumulative frequency diagrams • Box plots • Compare distributions using box plots (E)	***End of unit assessment***
Summer 2 (6)	***Vectors (2)***	• Understand and represent vectors • Vector notation • Vectors multiplied by a scalar • Add vectors • Add and subtract vectors • Vector journeys in shapes • Vectors in quadrilaterals • Parallel vectors	***End of unit assessment***
	Factors, Powers and surds (2)	• Prime factorisation, HCF and LCM • Powers, roots and negative indices • Fractional indices • Four operations with surds • Simplify surds	***End of unit assessment***

		• Expand single brackets with surds • Rationalise the denominator • Expand double brackets with surds • Rationalise the denominator with more complex denominators (E) • Solve problems with surds	
	Pythagoras and Sine/Cosine Rule (2)	• Pythagoras' theorem (find any side) • Use trigonometric ratios to find an unknown side length • Use trigonometric ratios to find an unknown angle • Exact trigonometrical values • Trigonometry in 3-D shapes • Area of a non-right-angled triangle • Use the sine rule to find an unknown length • Use the sine rule to find an unknown angle • Use the cosine rule to find an unknown length • Use the cosine rule to find an unknown angle	***End of Year / unit assessment***