ABINGDON
HOUSE SCHOOL

Curriculum map overview for Year 8
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)	***Ratio (2)***	• To understand a ratio. • To explore ratio problems. • To simplify ratios. • To express ratios in the form 1:n and n:1. • To compare ratios and fractions. • To solve ratio problems.	
	Proportion and scale (2)	• To explore direct proportion. • To explore conversion graphs. • To convert between currencies. • To interpret and understand direct proportion graphs. • To explore similar shapes. • To convert metric units. • To explore scale diagrams. • To interpret maps using scale and ratios.	
	Algebraic manipulation.	• To form algebraic expressions. • To identify and use formulae, expressions, identities and equations. • To simplify expressions. • To use directed numbers with algebra. • To use substitution with a directed number. • To expand a single bracket. • To factorise into a single bracket. • To expand single brackets and simplify.	

		• To expand double brackets. • To factorise quadratic expressions.	
Autumn 2 ***(7)***	***Coordinates and graphs***	• ***To explore coordinates in all four quadrants.*** • ***To explore lines parallel to the axes.*** • ***To explore a table of values.*** • ***Tp recognise and use the line y=x*** • ***To explore lines y=mx to direct proportion.*** • ***To introduce gradient (y=mx)*** • ***To explore lines with a negative gradient.*** • ***To find a midpoint of a line segment.*** • ***To solve problems with coordinates and graphs.***	
	Multiply and divide fractions.	• ***To divide a fraction by an integer.*** • ***To multiply a fraction by an integer*** • ***To multiply and divide fractions.*** • ***To understand reciprocals.*** • ***To multiply and divide mixed numbers*** • ***To multiply and divide algebraic fractions.***	

	Symmetry and reflection	● ***To explore the line of symmetry*** ● ***To explore rotational symmetry.*** ● ***To reflect a shape in a horizontal or vertical line.*** ● ***To reflect a shape in a diagonal line.*** ● ***To describe a reflection.***	
Spring 1 (6)	***Area, volume and density***	● ***To Name 2-D and 3-D shapes*** ● ***To explore Area of a 2-D shape*** ● ***To explore Area of a compound shape*** ● ***To Recognise prisms (including language of edges and vertices)*** ● ***To explore Volume of cubes and cuboids.*** ● ***To be able to convert metric units of mass and capacity*** ● ***To be able to understand the units of mass/density/volume.*** ● ***To be able to solve problems with density, mass and volume*** ● ***To solve the Area and volume in similar shapes (E).***	
	Equations and inequalities	● ***Solve simple 1 and 2-step equations*** ● ***Solve more complex equations*** ● ***Solve fractional equations*** ● ***Form and solve equations*** ● ***Solve equations with unknowns on both sides*** ● ***Understand and use inequalities*** ● ***Inequalities on a number line*** ● ***Solve simple inequalities*** ● ***Form and solve inequalities*** ● ***Solve inequalities with unknowns on both sides (E)***	

	Percentage	• ***Percentage of an amount*** • ***To convert between percentages and decimals*** • ***Use multipliers to find percentages*** • ***Convert between decimals and percentages greater than 1*** • ***Percentage increase using a multiplier*** • ***Percentage decrease using a multiplier*** • ***Percentage increase and decrease using a multiplier*** • ***Express one number as a fraction or a percentage of another (calculator)*** • ***Express one number as a fraction or a percentage of another (non-calculator)*** • ***Percentage change*** • ***Find the original value given a percentage*** • ***Choose appropriate methods to solve percentage problems***	
Spring 2 (6)	***Indices***	• ***Add and subtract expressions with indices*** • ***Multiply and divide expressions with indices*** • ***Addition law for indices*** • ***Subtraction law for indices*** • ***Addition and subtraction laws for indices*** • ***Powers of powers (E)*** • ***Negative indices (E)*** • ***Fractional indices (E)***	

	Standard form	• ***To explore Positive and negative powers of 10*** • ***To explore Numbers greater than 1 in standard form*** • ***To explore Numbers between 0 and 1 in standard form*** • ***To explore standard form on a calculator.***	
	Interpret and represent data	• ***To explore types of data*** • ***To explore Outliers and errors*** • ***To understand averages and range*** • ***To be able to choose the most appropriate average*** • ***To compare distributions using average and the range*** • ***To find averages from an ungrouped frequency table*** • ***To represent and interpret grouped discrete data*** • ***To represent and interpret continuous data grouped into equal classes*** • ***To be able to find the mean and mode from a grouped frequency table (E)***	
Summer 1 (5)	***Angles in parallel lines and polygons***	• ***To look at basic angles rules and notation*** • ***To explore angles between parallel lines and a transversal*** • ***To build an understanding of alternate and corresponding angles*** • ***To build an understanding of Alternate, corresponding and co-interior angles*** • ***To Solve complex problems with angles in parallel lines*** • ***To build an understanding of the Properties of special quadrilaterals and their diagonals*** • ***To be able to find sides and angles in special quadrilaterals*** • ***To build an understanding of Exterior***	

		angles of a polygon • *To build an understanding of Interior angles of a polygon* • *To build an understanding of Interior angles in a regular polygon* • *To build an understanding of how to Prove simple geometric facts (E)*	
	Tables and probability	• *To build an understanding of Probability vocabulary* • *To build an understanding of The probability scale* • *To build an understanding of the Probability of a single event* • *To Use the sum of probabilities being equal to 1* • *To build an understanding of probability experiments.* • *To build an understanding of Sample spaces for 1 or more events.* • *To build an understanding of Probabilities from sample space diagrams.* • *To build an understanding of Two-way tables* • *To build an understanding of probabilities from two-way tables.* • *To build an understanding of Frequency trees.* • *To build an understanding of Probabilities from frequency trees.*	
Summer 2 (6)	*Circles (2)*	• *To understand Circle vocabulary* • *To explore Pi as a ratio* • *To explore the circumference of a circle* • *To explore the perimeter of parts of a circle* • *To explore the Area of a circle* • *To explore the area of parts of a circle* • *To explore the area and circumference of a circle* • *To recap perimeter of compound shapes with circles* • *To recap perimeter and area of compound shapes with circles.*	

	Graphs and charts	● ***To recap Pictograms and bar charts*** ● ***To explore Vertical line charts*** ● ***To be able to Draw pie charts*** ● ***ToInterpret pie charts*** ● ***To interpret and draw Line graphs*** ● ***To choose the most appropriate graph or chart*** ● ***To compare distributions using graphs*** ● ***To explore misleading graphs and charts***	
	Sequences	● ***To generate and describe a sequence given a rule in words*** ● ***To be able to generate a sequence given a simple algebraic rule*** ● ***To be able to find the nth term of a linear sequence*** ● ***To be able to generate a sequence given a complex algebraic rule (E)***	