

Curriculum Map Subject: Maths

Time Period	Autumn Term		Spring Term		Summer Term	
Content	 Area and circumference of circles Ratio and proportion Angles and polygons Pythagoras's theorem Algebraic manipulation 	 Collect/represent data Decimal numbers Equations and formulae 	Surface area and volume of 3D shapes Distance, speed and time Coordinates and linear graphs Laws of Indices Standard Form	Percentages Sequences Scatter graph Compass and ruler constructions	Quadratic graphs Transformations Fractions Averages - statistical measures	Similar triangles Revision of key topics
Skills	Number solve problems using estimation and rounding (to d.p. and sf), work with positive and negative powers of ten Ratio, proportion and rates of change simplify ratios, share an amount in a ratio, solve problems with real life context e.g. recipe questions, best buy and currency exchange, use the unitary method to solve problems Algebra collect like terms, form expressions, expand brackets, simple factorisation, substitute into expressions and formulae, solve simple linear equations and complex equations involving brackets and unknown on both sides Geometry calculate area and circumference of circles, use basic angle facts and angle facts in parallel lines and polygons to solve problems, using Pythagoras's theorem in right-angled triangles Probability and statistics solve problems on simple probability, use two way tables to solve problems/collect data, use Venn diagrams to calculate probability, work out and compare data using averages and range		Number laws of indices excluding fractional and negative powers, work with standard form (positive and negative powers of ten), multiply and divide numbers in standard form using a calculator Ratio, proportion and rates of change distance, speed and time calculations, use multipliers to solve percentage increase/decrease problems, calculating simple interest Algebra generate sequences from nth term and find the nth term of linear sequences, recognise and plot equations of vertical/horizontal/diagonal lines, calculate the gradient from a graph, identify the gradient and y-intercept from an equation, work out the equation of a line from the graph, work out the midpoint of a line segment Geometry calculate the surface area and volume of prisms, including a cylinder, perform compass and ruler constructions (e.g. line and angle bisectors)		Number add, subtract, multiply, divide fractions and mixed numbers Ratio, proportion and rates of change solve real life problems involving ratios, fractions and percentages Geometry Plotting of quadratic graphs and recognising turning points and roots, translate, reflect, rotate, enlarge 2D shapes on a pair of coordinate axes, recognise and work with scale factors in similar triangles Probability and statistics draw and interpret scatter graphs, work out averages from grouped data	
Assessment week and content	wb 13 th November 2023 Area and circumference of circles, Ratio and proportion, Angles and polygons, Algebraic manipulation, Pythagoras's theorem, Using data, Decimal Numbers		wb 5 th February 2024 Equations and formulae, Surface area and volume of 3D shapes, Distance, speed and time, Laws of Indices, Standard Form, Compass and ruler constructions, Sequences, Coordinates and linear graphs		wb 15 th April 2024 All the content covered over the year	
	(students will also be give a topic I MathsWatch clips to support them		(students will also be give a topic I MathsWatch clips to support them		(students will also be give a t MathsWatch clips to support	•

Year Group: 9 Standard