

Year 7 Mathematics Curriculum						
Subject Intent: For every learner to be confident and fluent mathematicians who enjoy and succeed in mathematics, leaving school with a solid foundation of mathematical skills, knowledge and understanding, primed for their chosen fields in the 21 st century.						
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Big idea/Theme	<ul style="list-style-type: none"> • Making generalisations about the number system 	<ul style="list-style-type: none"> • Making generalisations about the number system 	<ul style="list-style-type: none"> • 2D geometry 	<ul style="list-style-type: none"> • The Cartesian plane 	<ul style="list-style-type: none"> • Fractions 	<ul style="list-style-type: none"> • Ratio and proportion
Big Idea/Theme	<ul style="list-style-type: none"> • Number systems and the axioms 	<ul style="list-style-type: none"> • Positive and negative numbers 	<ul style="list-style-type: none"> • Angles and classifying 2d shapes 	<ul style="list-style-type: none"> • Coordinates 	<ul style="list-style-type: none"> • Primes, factors and multiples 	<ul style="list-style-type: none"> • Ratios
Big idea/Theme	<ul style="list-style-type: none"> • Factors, multiples and order of operations 	<ul style="list-style-type: none"> • Expressions, equations and inequalities 	<ul style="list-style-type: none"> • Constructing triangles and quadrilaterals 	<ul style="list-style-type: none"> • Area of 2D shapes • Transforming 2D figures 	<ul style="list-style-type: none"> • Fractions 	<ul style="list-style-type: none"> • Ratio and proportion

Year 8 Mathematics Curriculum						
Subject Intent: For every learner to be confident and fluent mathematicians who enjoy and succeed in mathematics, leaving school with a solid foundation of mathematical skills, knowledge and understanding, primed for their chosen fields in the 21 st century.						
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Big idea/Theme	<ul style="list-style-type: none"> • Equations and Inequalities 1 	<ul style="list-style-type: none"> • Equations and inequalities 2 	<ul style="list-style-type: none"> • Proportional reasoning 	<ul style="list-style-type: none"> • Representations and reasoning with data 	<ul style="list-style-type: none"> • Angles 	<ul style="list-style-type: none"> • Area, volume and surface area
Big Idea/Theme	<ul style="list-style-type: none"> • Sequences • Forming and solving equations 	<ul style="list-style-type: none"> • Linear graphs 	<ul style="list-style-type: none"> • Ratio • Real life graphs and rate of change 	<ul style="list-style-type: none"> • Univariate data 	<ul style="list-style-type: none"> • Angles in polygons 	<ul style="list-style-type: none"> • Circles and composite shapes
Big idea/Theme	<ul style="list-style-type: none"> • Forming and solving inequalities 	<ul style="list-style-type: none"> • Accuracy and estimation 	<ul style="list-style-type: none"> • Direct and inverse proportion 	<ul style="list-style-type: none"> • Bivariate data 	<ul style="list-style-type: none"> • Bearings 	<ul style="list-style-type: none"> • Volume and surface area of prisms

Year 9 Mathematics Curriculum Sequence

Subject Intent: For every learner to be confident and fluent mathematicians who enjoy and succeed in mathematics, leaving school with a solid foundation of mathematical skills, knowledge and understanding, primed for their chosen fields in the 21st century.

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Big idea/Theme	Calculating <ul style="list-style-type: none"> Calculate with powers and roots Explore the use of standard form Explore the effects of rounding 	Algebra: manipulation <ul style="list-style-type: none"> Understand equations and identities Manipulate algebraic expressions Construct algebraic statements 	Patterns <ul style="list-style-type: none"> Investigate Fibonacci numbers Investigate Fibonacci type sequences Explore quadratic sequences 	Calculating space <ul style="list-style-type: none"> Solve problems involving arcs and sectors Solve problems involving prisms Investigate right-angled triangles Solve problems involving Pythagoras' theorem 	Algebra: visualising <ul style="list-style-type: none"> Investigate features of straight line graphs Explore graphs of quadratic functions Explore graphs of other standard non-linear functions Create and use graphs of non-standard functions Solve kinematic problems 	Probability <ul style="list-style-type: none"> Understand and use tree diagrams Develop understanding of probability in situations involving combined events Use probability to make predictions
Big Idea/Theme	Visualising and constructing <ul style="list-style-type: none"> Know standard mathematical constructions Apply standard mathematical constructions Explore ways of representing 3D shapes 	Proportional reasoning <ul style="list-style-type: none"> Solve problems involving different types of proportion Investigate ways of representing proportion Understand and solve problems 	Solving equations and inequalities <ul style="list-style-type: none"> Explore the meaning of an inequality Solve linear inequalities 	Conjecturing <ul style="list-style-type: none"> Explore the congruence of triangles Investigate geometrical situations Form conjectures 	Solving equations and inequalities <ul style="list-style-type: none"> Solve simultaneous equations Use graphs to solve equations Solve problems involving simultaneous equations 	Presentation of data <ul style="list-style-type: none"> Construct and interpret graphs of time series Interpret a range of charts and graphs Interpret scatter diagrams

		<p>involving congruence</p> <ul style="list-style-type: none">• Understand and solve problems involving similarity• Know and use compound units in a range of situations		<ul style="list-style-type: none">• Create a mathematical proof		<ul style="list-style-type: none">• Explore correlation
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