



MATHS CURRICULUM OVERVIEW – HIGHER

Ready. Respect. Safe.

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7	- Understand place value and round numbers to differing degrees of accuracy. - Confidently use written methods for the four operations, including integers and decimals. - Understand how to calculate using powers, roots and primes.		- Applying the order of operations to problems with integers and decimals. - Understanding negative numbers in context, and working with directed number. - Use knowledge of fractions in different contexts, including four operations and comparing fractions.		- Using percentage, fraction & decimal equivalency in a variety of contexts. - Introduction to algebraic thinking, generating and solving equations. - Manipulating & simplifying expressions, applying the index laws when multiplying and dividing.	
8	- Reading timetables and estimating calculations. - Draw, measure and construct angles. - Using the distributive law to multiply brackets and factorise expressions. - Solving multi-step equations. - Proportional reasoning through ratio tables.		- Applying knowledge of angle facts to calculate missing angles, working with three-figure bearings. - Learning to effectively handle, analyse, represent and measure discrete data. - Reading and writing ratios, simplifying and finding equivalent ratios, and finding parts/whole ratios.		- Generating formulae in words, and using symbols. - Evaluating formulae through substitution. - Representing bivariate data and understanding correlations, causations and outliers. - Using cartesian grids to draw linear graphs, find midpoints and understand quadratic relationships.	
9	- Area of 2D polygons and circles. - Identifying patterns in linear and non-linear sequences, finding and using the nth term. - Understanding and representing inequalities in a variety of contexts. - Writing and working with numbers in standard form		- Interpreting contextual graphs, understanding how to calculate compound measures. - Introduction to theoretical and experimental probability. - Understanding how to identify congruent and similar shapes, and using them to solve problems.		- Applying Pythagoras' Theorem. - Using trigonometry in right-angled triangles. - Using pi to calculate the circumference of circles, length of an arc and area of a sector. - Advanced proportional reasoning, solving complex ratio problems.	
10	- Advanced graphs, equations & inequalities - Congruence & similarity - Right-angled triangles - Advanced proportion & rates		- Circles - Construction and loci - Continuous data - Set theory - Errors		- Advanced rearranging - Quadratics - Surface area and volume - Advanced sequences - Advanced trigonometry	
11	- Sampling - Surds and indices - Advanced quadratic graphs and equations - Vectors		- Advanced probability - Functions - Algebraic proof - Solving geometric problems			



MATHS CURRICULUM OVERVIEW – CROSSOVER

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7	- Understand place value and round numbers to differing degrees of accuracy. - Confidently use written methods for the four operations, including integers and decimals. - Understand how to calculate using powers, roots and primes.		- Applying the order of operations to problems with integers and decimals. - Understanding negative numbers in context, and working with directed number. - Use knowledge of fractions in different of contexts, including four operations and comparing fractions.		- Using percentage, fraction & decimal equivalency in a variety of contexts. - Introduction to algebraic thinking, generating and solving equations. - Manipulating & simplifying expressions, applying the index laws when multiplying and dividing.	
8	- Reading timetables and estimating calculations. - Draw, measure and construct angles. - Using the distributive law to multiply brackets and factorise expressions. - Solving multi-step equations. - Proportional reasoning through ratio tables.		- Applying knowledge of angle facts to calculate missing angles, working with three-figure bearings. - Learning to effectively handle, analyse, represent and measure discrete data. - Reading and writing ratios, simplifying and finding equivalent ratios, and finding parts/whole ratios.		- Generating formulae in words, and using symbols. - Evaluating formulae through substitution. - Representing bivariate data and understanding correlations, causations and outliers. - Using cartesian grids to draw linear graphs, find midpoints and understand quadratic relationships.	
9	- Area of 2D polygons and circles. - Identifying patterns in linear and non-linear sequences, finding and using the nth term. - Understanding and representing inequalities in a variety of contexts. - Writing and working with numbers in standard form		- Interpreting contextual graphs, understanding how to calculate compound measures. - Introduction to theoretical and experimental probability. - Understanding how to identify congruent and similar shapes, and using them to solve problems.		- Applying Pythagoras' Theorem. - Using trigonometry in right-angled triangles. - Using pi to calculate the circumference of circles, length of an arc and area of a sector. - Advanced proportional reasoning, solving complex ratio problems.	
10	- Number skills - Fractions, decimals and percentages, - Algebra skills and Sequences - Ratio and proportion - Polygons, angles and area		- Standard form - Proportion - Congruence and similarity - Graphs - Inequalities		- Probability - Pythagoras - Trigonometry - Circles	
11	- Construction - Types of data - Quadratics - Error - Advanced sequences		- Surface area and volume - Vectors - Surds and indices - Probability - Functions			



MATHS CURRICULUM OVERVIEW – FOUNDATION

Ready. Respect. Safe.

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7	- Understand place value and round numbers to differing degrees of accuracy. - Confidently use written methods for the four operations, including integers and decimals. - Understand how to calculate using powers, roots and primes.		- Applying the order of operations to problems with integers and decimals. - Understanding negative numbers in context, and working with directed number. - Use knowledge of fractions in different contexts, including four operations and comparing fractions		- Using percentage, fraction & decimal equivalency in a variety of contexts. - Introduction to algebraic thinking, generating and solving equations. - Manipulating & simplifying expressions, applying the index laws when multiplying and dividing.	
8	- Reading timetables and estimating calculations. - Draw, measure and construct angles. - Using the distributive law to multiply brackets and factorise expressions. - Solving multi-step equations. - Proportional reasoning through ratio tables.		- Applying knowledge of angle facts to calculate missing angles, working with three-figure bearings. - Learning to effectively handle, analyse, represent and measure discrete data. - Reading and writing ratios, simplifying and finding equivalent ratios, and finding parts/whole ratios.		- Generating formulae in words, and using symbols. - Evaluating formulae through substitution. - Representing bivariate data and understanding correlations, causations and outliers. - Using cartesian grids to draw linear graphs, find midpoints and understand quadratic relationships.	
9	- Area of 2D polygons and circles. - Identifying patterns in linear and non-linear sequences, finding and using the nth term. - Understanding and representing inequalities in a variety of contexts. - Writing and working with numbers in standard form		- Interpreting contextual graphs, understanding how to calculate compound measures. - Introduction to theoretical and experimental probability. - Understanding how to identify congruent and similar shapes, and using them to solve problems.		- Applying Pythagoras' Theorem. - Using trigonometry in right-angled triangles. - Using pi to calculate the circumference of circles, length of an arc and area of a sector. - Advanced proportional reasoning, solving complex ratio problems.	
10	- Number calculations - Fractions - Simplifying expressions - Polygons - Area		- Types of data - Fractions, decimals, percentages - Sequences - Linear inequalities		- Similarity - Transformations - Probability - Ratio	
11	- Standard form - Rates of change - Graphs - Quadratics - Indices		- Right angled triangles - Circles - Surface area and volume - Using data - Probability			