

HIGHFIELDS SCHOOL

CURRICULUM OVERVIEW 2023-2024



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SUBJECT: MATHEMATICS

KEY STAGE: 3

AUTUMN TERM 1 - YEAR 7	SPRING TERM 1 - YEAR 7	SUMMER TERM 1 - YEAR 7
<p>Year 7 Primary Transition Booklet</p> <p>Topics</p> <ul style="list-style-type: none"> • Multiplication and Division • Basic number skills • 2D shapes, Perimeter and Area • Introduction to Fractions • Introduction to Algebra • Introduction to Ratio • Introduction to Indices 	<p>Topics</p> <ul style="list-style-type: none"> • Classify angles and find unknown angles • Properties of triangles and quadrilaterals • Solving equations • Sequences and patterns • Ratio and proportion • Rounding and estimating • Calculator skills 	<p>Topics</p> <ul style="list-style-type: none"> • Introduction to rearranging equations • Introduction to indices • Solving inequalities • Introduction to standard form • Investigating pi • Volume and surface area of 3D shapes • Introduction to linear graphs
<p>ASSESSMENT Non-calculator base line assessment.</p>	<p>ASSESSMENT Geometry mini test.</p>	<p>ASSESSMENT Presentation – research project.</p>
AUTUMN TERM 2 - YEAR 7	SPRING TERM 2 - YEAR 7	SUMMER TERM 2 - YEAR 7
<p>Topics</p> <ul style="list-style-type: none"> • Area and perimeter of 2D shapes • Expanding and Factorising • Substitution • Calculations with fractions • Calculations with decimals • Multiples, factors, LCM, HCF, primes 	<p>Topics</p> <ul style="list-style-type: none"> • Representing data • Averages and the range • Percentages • Fractions, Decimals and Percentages 	<p>Topics</p> <ul style="list-style-type: none"> • Introduction to Probability • Two-way tables and Venn-diagrams • Investigating Pythagoras' Theorem. • Introduction to transformations of shapes. • Constructions
<p>ASSESSMENT Topic-based assessment based on the main scheme of work.</p>	<p>ASSESSMENT Data handling project, Topic-based assessment based on the main scheme of work (calculator).</p>	<p>ASSESSMENT End of year assessment.</p>

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AUTUMN TERM 1 - YEAR 8	SPRING TERM 1 - YEAR 8	SUMMER TERM 1 - YEAR 8
<p>Topics</p> <ul style="list-style-type: none"> • Basic number methods • Negative numbers • Algebra basics • Expanding and Factorising • Laws of Indices • Sequences • Rounding and estimating • Factors and Multiples 	<p>Topics</p> <ul style="list-style-type: none"> • Co-ordinates • Linear graphs and equation of a line • Travel graphs • Fractions, decimals and percentages • Similar and congruent shapes • Transformations of shapes • Ratio and Proportion 	<p>Topics</p> <ul style="list-style-type: none"> • Area and circumference of circles • Introduction to sectors • Plans, elevations and scaled drawings • Volume and surface area of 3D shapes • Loci and constructions • Introduction to Bounds
<p>ASSESSMENT No assessment.</p>	<p>ASSESSMENT Topic-based assessment based on the main scheme of work. (Non-Calculator)</p>	<p>ASSESSMENT Group presentation.</p>
AUTUMN TERM 2 - YEAR 8	SPRING TERM 2 - YEAR 8	SUMMER TERM 2 - YEAR 8
<p>Topics</p> <ul style="list-style-type: none"> • Solving equations • Rearranging formulae • Measuring and drawing angles • Introduction to Bearings • Using angle facts including with parallel lines • Calculations with Fractions • Calculations with Decimals 	<p>Topics</p> <ul style="list-style-type: none"> • Perimeter and Area • Forming and solving equations • Representing and solving Inequalities • Increasing and decreasing by a percentage • Introduction to compound interest • Using standard form in calculations 	<p>Topics</p> <ul style="list-style-type: none"> • Angles in Polygons • Introduction to surds • Data handling – statistical diagrams and averages • Pythagoras' Theorem • Introduction to Trigonometry • Probability with tree diagrams • Introduction to direct and inverse proportion
<p>ASSESSMENT Topic-based assessment based on the main scheme of work. (Non-calculator)</p>	<p>ASSESSMENT Project.</p>	<p>ASSESSMENT End of year assessment (calculator).</p>