

HIGHFIELDS SCHOOL

OVERVIEW - SCHEME OF WORK 2021-2022



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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>Theme Algebra and Fractions</p> <p>Topics</p> <ul style="list-style-type: none"> • Basic number • Multiplication and Division • Bar Charts • Introduction to Fractions • Introduction to Algebra 	<p>Theme Geometry</p> <p>Topics</p> <ul style="list-style-type: none"> • Classify angles and find unknown angles • Properties of triangles and quadrilaterals • Linear Graphs • Fractions, Decimals and Percentages • Circles 	<p>Theme Ratio and Proportion</p> <p>Topics</p> <ul style="list-style-type: none"> • Probability • Ordering Fractions • Ratio and Proportion • Sequences
<p>ASSESSMENT Non-calculator base line assessment.</p>	<p>ASSESSMENT Numeracy assessment based on topics in the supplementary scheme of work.</p>	<p>ASSESSMENT Presentation – research project.</p>
AUTUMN TERM 2 - YEAR 7	SPRING TERM 2 - YEAR 7	SUMMER TERM 2 - YEAR 7
<p>Theme Perimeter and Area</p> <p>Topics</p> <ul style="list-style-type: none"> • Area and perimeter of 2D shapes • Two-way tables and Venn Diagrams • Multiples, factors, LCM, HCF, primes • Solving Equations • Construction 	<p>Theme Expanding and Factorising</p> <p>Topics</p> <ul style="list-style-type: none"> • Calculator skills • Expanding and Factorising • Volume • Fractions operations 	<p>Theme Percentages and pie charts</p> <p>Topics</p> <ul style="list-style-type: none"> • Read and interpret pie charts • Percentages • Collecting data • Translation and reflection • Pythagoras' Theorem • Indices
<p>ASSESSMENT Topic-based assessment based on the main scheme of work (calculator).</p>	<p>ASSESSMENT 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"> Using angle rules including with parallel lines Probability Algebra rules Basic number methods Fractions 	<p>Topics</p> <ul style="list-style-type: none"> Solving equations Bearings Statistical diagrams Rounding and estimation Surface area and volume 	<p>Topics</p> <ul style="list-style-type: none"> Graphs Similarity and congruence Pythagoras' Theorem Rearranging formulae Plans, elevations and scale drawings Exchange rates
<p>ASSESSMENT</p> <p>Topic-based assessment based on the main scheme of work.</p>	<p>ASSESSMENT</p> <p>Numeracy assessment based on topics in the supplementary scheme of work.</p>	<p>ASSESSMENT</p> <p>Presentation – Maths in real life research project.</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"> Real-life graphs Area and perimeter in 2D shapes Sequences Lines and regions of a circle Area and circumference of a circle Ratio and proportion Negative numbers 	<p>Topics</p> <ul style="list-style-type: none"> Loci and construction Transformations Increasing and decreasing by a percentage Multiplying and dividing fractions Expressions and formulae Co-ordinates Using a calculator 	<p>Topics</p> <ul style="list-style-type: none"> Inequalities Indices Standard form Data handling – statistical diagrams and averages Column vectors and translation
<p>ASSESSMENT</p> <p>Topic-based assessment based on the main scheme of work.</p>	<p>ASSESSMENT</p> <p>Topic-based assessment based on the main scheme of work.</p>	<p>ASSESSMENT</p> <p>End of year assessment.</p>