

	EMERGING	DEVELOPING	SECURE	MASTERY
Year 8 Autumn 1	<p>Shows basic awareness of algebraic words such as expression, equation and term.</p> <p>Can simplify very simple expressions with support, including collecting like terms.</p> <p>Recalls some index facts and needs guidance to apply them.</p>	<p>Understands key algebraic vocabulary and notation in familiar examples.</p> <p>Simplifies expressions and expands single brackets with growing accuracy.</p> <p>Uses index laws in straightforward calculations but may make errors with negatives or powers.</p>	<p>Accurately simplifies expressions, expands and factorise single brackets.</p> <p>Applies index laws confidently, including in multi-step problems.</p> <p>Explains algebraic processes clearly and checks answers using structure.</p>	<p>Works fluently with algebraic notation, simplifying and factorising efficiently.</p> <p>Apply index laws accurately in unfamiliar contexts, showing clear reasoning.</p> <p>Demonstrates deep understanding of structure, linking algebraic ideas confidently.</p>
Year 8 Autumn 2	<p>Recognises simple sequences and can find missing terms when given support.</p> <p>Shows limited understanding of types of sequences beyond linear.</p>	<p>Finds nth terms of linear sequences in familiar contexts.</p> <p>Use the compound measure triangle independently in routine examples.</p> <p>Recognises some non-linear sequences such as Fibonacci with guidance.</p>	<p>Finds and applies nth terms for linear sequences confidently.</p> <p>Identifies and generates terms in geometric, quadratic and Fibonacci-type sequences.</p> <p>Uses compound measures accurately to model real-life situations.</p>	<p>Analyses sequences deeply, linking structure to algebraic rules.</p> <p>Generates and justifies nth terms for a range of sequence types, including quadratic.</p> <p>Apply compound measures fluently in complex, multi-step contexts.</p>

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Year 8 Spring 1	<p>Solves simple one-step equations with guidance.</p> <p>Recognises the idea of balance in an equation but cannot consistently apply it.</p> <p>Struggles to construct equations from worded problems.</p>	<p>Solves one- and two-step linear equations in familiar situations.</p> <p>Begins to solve equations with unknowns on both sides but needs support.</p> <p>Forms simple equations from worded or contextual problems.</p>	<p>Solves linear equations accurately, including unknowns both sides and brackets.</p> <p>Changes the subject of a formula in straightforward cases.</p> <p>Uses algebra effectively to represent problems and check solutions.</p>	<p>Solves and rearranges complex equations fluently, including multi-step and contextual forms.</p> <p>Chooses efficient strategies when changing the subject of a formula.</p> <p>Explains algebraic reasoning clearly, applying ideas flexibly in unfamiliar contexts.</p>
Year 8 Spring 2	<p>Recognises right-angled triangles and can identify the hypotenuse with support.</p> <p>Recalls parts of Pythagoras' theorem.</p> <p>Simplifies ratios with guidance but struggles to divide quantities in ratio.</p>	<p>Applies Pythagoras' theorem in routine cases with increasing accuracy.</p> <p>Simplifies ratios fully and creates equivalent ratios.</p> <p>Divides quantities into a given ratio when whole amount is known.</p>	<p>Use Pythagoras confidently, including coordinate-based distance problems.</p> <p>Solves ratio problems involving part-whole and difference information</p> <p>Works fluently with multiplicative relationships in ratio and proportion.</p>	<p>Applies Pythagoras' theorem flexibly in unfamiliar, multi-step contexts.</p> <p>Interprets and solves complex ratio problems, justifying each step clearly.</p> <p>Connects proportional reasoning to scale models, maps and real-life applications.</p>

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Year 8 Summer 1	<p>Plots coordinates in the first quadrant with support.</p> <p>Recognises straight-line graphs but struggles to identify gradient or intercepts.</p> <p>Interprets simple real-life graphs when guided.</p>	<p>Plots linear graphs with increasing accuracy.</p> <p>Identifies gradients and intercepts in routine examples.</p> <p>Interprets simple distance–time or conversion graphs in familiar contexts.</p>	<p>Uses $y = mx + c$ confidently to draw and interpret linear graphs.</p> <p>Recognises and sketches simple quadratic graphs.</p> <p>Interprets gradients and intercepts meaningfully in real-life contexts.</p>	<p>Analyses linear and quadratic graphs deeply, interpreting structure and meaning.</p> <p>Use graphs to estimate, predict and solve unfamiliar problems.</p> <p>Explains connections between algebraic equations and graphical representations with clarity.</p>
Year 8 Summer 2	<p>Recognises inequality symbols and represents very simple ones on a number line.</p> <p>Solve basic one-step inequalities with support.</p>	<p>Solves linear inequalities in familiar contexts.</p> <p>Represents single and some double inequalities on a number line with growing accuracy.</p>	<p>Solves inequalities confidently, including unknowns on both sides.</p> <p>Represents solution sets clearly using number lines and correct notation.</p>	<p>Solves complex inequalities and interprets solution ranges in context.</p> <p>Explains how inequalities model real-life constraints such as limits, ranges or conditions.</p>