

Curriculum Implementation Mapping – Skills and Knowledge

Subject: Maths

Year group: 8

Topic	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Knowledge	<p>Factors and Multiples: LCM, HCF, squares, primes, roots, cubes.</p> <p>Ratio, proportion and percentages: simplify ratios, equivalent ratios, divide into a ratio. % increase, decrease, reverse %</p>	<p>Algebraic expressions and formulae: key words, simplifying, expanding/factorising</p> <p>Mensuration: perimeter, formulae for area of 2d shapes, compound shapes, volume of prisms. units</p>	<p>Negative, fractions and decimals: four operations with negatives, rational & irrational numbers fractions & decimals, approximation</p> <p>Rate and Speed: proportional rates, DST, units, distance time graphs</p>	<p>Equations & Inequalities: Solving, manipulating</p> <p>Functions & graphs: top sets only.</p> <p>Angles: Angle rules, types of triangles & quadrilaterals, polygons</p>	<p>Angles and Constructions: Top set only. Different angle types, properties of shapes. Key words.</p> <p>Data: Types of data/collection, graphs and charts</p>	<p>Probability: sum to 1, use of fractions, experimental probability etc</p> <p>Code breaking: types and uses of codes. Historical context</p>
Skills	<p>F&M: complete prime factor trees, use venn diagrams to find HCF/LCM.</p> <p>RPP: use bar models to solve ratio problems, calculator and non calc methods for percentage of an amount, increase and decrease. Use multipliers</p>	<p>AE&F: collect like terms, identify HCF of algebraic terms, multiply algebraic terms</p> <p>M: find the area and perimeter of 2d shapes. Apply rules for area to compound shapes.</p>	<p>NFD: using a number line, apply rules of operations to negatives, fractions, decimals and mixed numbers. Round numbers to different degrees of accuracy. Estimate calculations.</p> <p>R&S: calculate a rate. Use DST triangle to find missing values. Convert metric units of time, speed and distance. Read and draw a distance time graph.</p>	<p>E&I: use a balancing method. Draw an inequality on a number line</p> <p>F&G: Coordinates, plot linear equations</p> <p>Angles: find missing angles, apply rules of angles & properties of triangles/quadrilaterals. Use formula for sum of interior angles</p>	<p>A&C: use a protractor, compass, ruler accurately. Construct bisectors, triangles etc.</p> <p>Data: draw and read graphs, charts. Critique questionnaires</p>	<p>P: find probability of a single event, calculate relative frequency, probability of an event not happening</p> <p>CB: pigpen, rail fence, frequency analysis</p>
Assessment Pattern		Term 2 Summary Assessment		Term 4 Summary Assessment		Term 6 (End of Year) Summary Assessment