

Year 8 Curriculum Map 2022-23

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Algebra		<p><u>21: Advanced Algebra</u> Simplifying. Algebraic fractions. Quadratic expansion. Quadratic factorisation. Difference of two squares.</p> <p><u>22: Functions, Mappings and Graphs</u> Understanding functions. Real life graphs.</p>		<p><u>25: Further Algebra</u> Solving equations with two copies of the variable. Harder algebraic fractions. Change of subject. Drawing graphs using the cover up method.</p> <p><u>26: Graphs</u> Simultaneous equations. Plotting curves.</p>		
Number	<p><u>18: HCF, LCM and powers</u> HCF and LCM using lists. HCF and LCM using venn diagrams. Prime factor decomposition. Index laws.</p> <p><u>19: Percentages and Proportion</u> The multiplier. Simple interest. Compound interest. Percentage change. Reverse Percentages</p>		<p><u>23: Standard form and Bounds</u> Converting in standard form. Calculations in standard form. Upper and lower bounds of rounding (and truncating). Simple compound bounds.</p>			

	Proportion. Ratio in area & volume.					
Shape and Space	<u>20: Circles and Cylinders</u> Key terms. Circumference. Area. Volume of a cylinder. Surface area of a cylinder.		<u>24: Congruency and Constructions</u> Recognising congruency in shapes. Knowing the types of congruencies of triangles. Constructing perpendicular bisectors (and through a point). Constructing angle bisectors.		<u>27: Trigonometry</u> Pythagoras' theorem. Finding a missing angle. Finding a missing length. Using the three trigonometric ratios.	<u>28: Shapes, scales and ratio</u> Similar triangles. Rates of change (Speed, density etc.). Scale drawings. Map scales.
Statistics				<u>26: Graphs</u> Cumulative frequency.		