

Subject Long Term Plan Year 8

W/C	6 th September	10 th September	17 th September	24 th September	1 st October	8 th October	15 th October	HALF TERM	31 st October	5 th November	12 th November	
	Revise and Improve	Revise and Improve	Revise and Improve	Revise and Improve	Number Fractions 2	Number Fractions 2	Number Fractions 2		Number - Percentages	Revision and Assessment Week	Number: Percentages	
	Four operations Order of operations Negative numbers Fractions Algebra				Multiply and Divide proper and improper fractions and mixed numbers – positive and negative. Include problems with fractions and integers. Find a fraction of an amount Find the whole given the fraction of the amount Find a fractional increase and decrease.			Define percentage as “number of parts per hundred” Interpret diagrams as % and vice versa. Interpret percentages as a fraction or a decimal	Express one quantity as a percentage of another Interpret percentages as a fraction or a decimal			
W/C	19 th November	26 th November	3 rd December	10 th December	CHRISTMAS	7 th January	14 th January	21 st January	28 th January	4 th February	11 th February	HALF TERM
	Number Percentages	Number: Percentages	Number: Percentages	Problem Solving		Number: Laws of indices	Algebra 2	Algebra 2	Algebra 2	Algebra 2	Algebra 2	
	Compare 2 quantities using percentages and work with percentages greater than 100%.	% change – increase, decrease, original value	Solve problems involving percentage change including percentage increase, decrease, original value problems and simple interest.	Investigations from problem solving folder	Derive and apply the laws of indices	Substitute numerical values into formulae and expressions, including scientific formulae – include all prior learning (fractions, decimals, negatives) Simplify and manipulate algebraic expressions to maintain equivalence by: Multiplying a single term over a bracket Taking out common factors Expanding products of 2 or more binomials Simplifying expressions involving sums, products and powers, including the laws of indices Using algebraic methods to solve linear equations in one variable – include equations with brackets and fractional equations Rearrange formulae to change the subject						
W/C	25 th February	4 th March	11 th March	18 th March	25 th March	1 st April	EASTER	24 th April	29 th April	6 th May	13 th May	
	Revision and Assessment week	Algebra 2	Geometry: Circles, area and angles	Geometry: Circles, area and angles	Geometry: Circles, area and angles	Geometry: Circles, area and angles		Ratio, Proportion & rates of change	Ratio, Proportion & rates of change	Ratio, Proportion & rates of change	Revision and Assessment week	

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		Understand and use the concepts and vocabulary of inequalities: Represent the solution set to an inequality on a number line and vice versa Find the integer solutions of an inequality Solve linear inequalities in one variable	<p>Convert between cm³ and m³</p> <p>Derive and apply formulae to calculate and solve problems involving area of circles, composite shapes and trapeziums</p> <p>Calculate and solve problems involving perimeters of 2d shapes (incl. circles)</p> <p>Include examples using algebra, fractions, decimals etc.</p> <p>Find unknown angles in quadrilaterals</p> <p>Derive and apply the properties of polygons</p>					Change freely between related standard units (eg time, length, area, volume/ capacity, mass) Use ratio notation including reduction to simplest form Divide a given quantity into 2 or more parts Given information about 1 part, find the whole or other parts Understand that a multiplicative relationship between 2 quantities can be expressed as a ratio or a fraction	
W/C	20 th May	HALF TERM	3 rd June	10 th June	17 th June	24 th June	1 st July	8 th July	
	Ratio, Proportion & rates of change		Ratio, Proportion & rates of change	Statistics	Statistics	Geometry: 3D shapes	Enrichment Week	Geometry : 3D shapes	
	Use compound units such as speed, unit pricing and density to solve problems.		Solve problems involving direct and indirect proportion including algebraic representation s eg recipe problems, best buy problems, exchange rates	Revise and improve: Pie & bar charts, line graphs. Mean, median and mode	Mean, median and mode for non grouped data in a table Cumulative frequency chart	Use the properties of faces, surfaces, edges and vertices of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres to solve problems in 3d. Derive and apply the formula for volume and surface area of cuboids and other prisms	apply formulae to calculate and solve problems involving volume and surface area of cuboids and other prisms. Construct and interpret plans and elevations of 3d shape		