


Year 8 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Revise & Improve -Four operations -Order of operations -Negative numbers -Fractions -Algebra (END OF YEAR 7 SKILLS CHECK) Hegarty maths home learning set weekly Fortnightly Fluency Tests – Formative and diagnostic assessment			Number – Fractions 2 --Multiply and divide proper and improper fractions and mixed fractions both positive and negative -Find a fraction of an amount -Find the whole amount given a fraction of the amount -Find a fractional increase and decrease Hegarty maths home learning set weekly Fortnightly Fluency Tests – Formative and diagnostic assessment			Number – Percentages -Interpret diagrams as percentages and vice versa -Interpret percentages as a fraction or as a decimal -Express one quantity as a percentage of another -Compare two quantities using percentages and work with percentages greater than 100% -Interpret fractions and percentages as operations with and without a calculator -Solve problems involving percentage change, including percentage increase/decrease and original value problems and simple interest in financial mathematics Hegarty maths home learning set weekly Fortnightly Fluency Tests – Formative and diagnostic assessment						Revise & Improve Consolidation, gap filling, DIRT time END OF TERM TEST
Spring	Algebra 2 -Substitution into formulae and expressions- including all prior learning on fractions, decimals and negatives -Simplify and manipulate algebraic expressions -Expanding brackets -Simplify expressions including the laws of indices -Solving linear equations including equations with brackets and fractional equations -Represent inequalities on a number line -Solving inequalities -Rearrange formulae to change the subject Hegarty maths home learning set weekly Fortnightly Fluency Tests – Formative and diagnostic assessment						Geometry – Circles & Area -Convert between cm squared and m squared -Derive and apply formulae to calculate and solve problems involving area of circles, composite shapes and trapeziums. -Calculate and solve problems involving perimeter of 2D shapes including circles Hegarty maths home learning set weekly Hegarty maths home learning set weekly Fortnightly Fluency Tests – Formative and diagnostic assessment			Revise & Improve Consolidation, gap filling, DIRT time END OF TERM TEST			
Summer	Ratio , Proportion & Rates of Change -Change between related units (time, length, area, volume/capacity, mass -Simplify ratios to simplest form -Divide a given quantity into two or more parts -Use compound units such as speed, unit pricing and density to solve problems -Direct and inverse proportion including graphical and algebraic interpretations – recipes, best buys, exchange rates						Statistics -Construct and analyse stem and leaf diagrams, including back to back -Find the mean, median, mode and range of non grouped data		Geometry – 3D Shapes -Use properties of faces, surfaces, edges and vertices of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres to solve problems in 3D -Convert between cm cubed and m cubed -Know and use 1 litre=1000cm cubed			Revise & Improve	

	<p>-Draw and interpret pie chart Hegarty maths home learning set weekly</p> <p>Fortnightly Fluency Tests – Formative and diagnostic assessment</p>	<p>Hegarty maths home learning set weekly</p> <p>Fortnightly Fluency Tests – Formative and diagnostic assessment</p>	<p>-Derive and apply formulae to calculate and solve problems involving volume and surface area of cuboids (including cubes and other prisms such as cylinders) -Construct and interpret plans and elevations of 3D shapes. Hegarty maths home learning set weekly</p> <p>Fortnightly Fluency Tests – Formative and diagnostic assessment</p>	<p>Consolidation, gap filling, DIRT time</p> <p>END OF YEAR SUMMATIVE EXAMS</p>
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