Curriculum Plans: Year 9 Maths (Set 2)

	Topic	Knowledge: By the end of the unit students will know:	Skills: What skills will students have developed by the end of this unit?	Key terms: What new key terms and vocabulary will be learnt in this unit?	Summative Assessment: How will pupils be assessed in this unit?
Michaelmas 1	HCF & LCM Algebra Shape	Factors, multiples, primes, HCF, LCM, linear equations, changing the subject, fractions, decimals, percentages, quadrilaterals, and symmetry.	Identifying factors, multiples, and prime numbers; forming and solving linear equations; changing the subject in algebra; working with fractions, decimals, percentages; identifying properties of quadrilaterals and symmetry.	Factors, multiples, prime numbers, HCF, LCM, linear equations, FOIL method, percentages, quadrilaterals, symmetry, expanding brackets.	Weekly homework set via Sparx Maths which is connected to each scheme of work and creates questions that are a combination of retrieval and current content. Half term test in the final week of the half term to formally assess students in all areas covered.
Michaelmas 2	Algebra Area & Volume Angles	Expanding double and triple brackets, factorising, surface area and volume of prisms, arcs, sectors, metric conversions, compound measures, interior and exterior angles, BODMAS, calculator usage, rounding.	Expanding and factorizing algebraic expressions, calculating volume and surface area, converting metric units, understanding compound measures, calculating angles in polygons, using BODMAS, using calculators for complex calculations, rounding to decimal places/significant figures.	Double/triple brackets, factorising, volume, surface area, metric conversions, compound measures, BODMAS, significant figures.	Weekly homework set via Sparx Maths which is connected to each scheme of work and creates questions that are a combination of retrieval and current content. Half term test in the final week of the Michaelmas term to formally assess students in all areas covered.
Lent 1	Pythagoras	Pythagoras' theorem, similarity, trigonometry, straight line	Applying Pythagoras' theorem, using similarity	Pythagoras' theorem, similarity,	

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	Trigonometry Graphs	graphs, simultaneous equations, and their graphical representations.	and trigonometry to find missing lengths and angles, calculating equations of straight lines, solving simultaneous equations algebraically and graphically.	trigonometry, simultaneous equations, straight-line graphs, parallel/perpendicular lines.	Weekly homework set via Sparx Maths which is connected to each scheme of work and creates questions that are a combination of retrieval and current content.
Lent 2	Indices Averages	Indices, standard form, ratio, averages from frequency tables, pie charts, and frequency polygons.	Working with indices (multiplying, dividing, negative, fractional), writing and calculating in standard form, simplifying and sharing quantities in ratios, calculating averages from frequency tables, constructing and interpreting pie charts and frequency polygons.	Indices (negative/fractional), standard form, ratio, averages, pie charts, frequency polygons.	Weekly homework set via Sparx Maths which is connected to each scheme of work and creates questions that are a combination of retrieval and current content. Test in the final week of the Lent term to formally assess students in all areas covered.
Trinity 1	Statistics Probability	Data handling cycle, sampling methods, probability, two-way tables, tree diagrams, and Venn diagrams.	Understanding and applying data handling methods, conducting sampling, calculating probabilities, using two-way tables and frequency trees, representing probabilities through tree and Venn diagrams.	Data handling cycle, sampling methods, probability, two-way tables, frequency trees, tree diagrams, Venn diagrams.	Weekly homework set via Sparx Maths which is connected to each scheme of work and creates questions that are a combination of retrieval and current content.
Trinity 2	Constructions	Scale drawings, bearings, constructing triangles, compass constructions, and loci problems.	Constructing and interpreting scale drawings, using bearings, constructing	Scale drawings, bearings, constructions, loci problems.	Weekly homework set via Sparx Maths which is connected to each scheme of work and creates questions that are a

			triangles with protractors and compasses, solving loci problems.		combination of retrieval and current content. End of Year exam in June to formally assess students in all areas covered in Year 9.