

Overview of the year for (Year 11 Sets 4-5):		Ways to consolidate and extend your learning in Maths:		
Number Algebra Ratio and Proportion Geometry and Measures Statistics and Probability		Can use Maths genie questions & worked solutions. https://www.mathsgenie.co.uk/ Use of Corbett- Maths. https://corbettmaths.com/ Use of Maths Watch. https://vle.mathswatch.co.uk/vle/ Weekly Hegarty maths HW with assigned 'fix up five' clip numbers https://hegartymaths.com/login/learner Use Lesson PPTs and revision specific materials uploaded on Microsoft Teams.		
Half Term	Unit title	Knowledge	Skills	Assessment
1	Number- 1	Write a number of the product of its prime factors, find the HCF and LCM of two numbers, use powers and roots in calculations, multiply and divide using index laws, work out a power raised to a power, use negative indices, use fractional indices, write a number in standard form, calculate with numbers in standard form, calculate error intervals and bounds.	Become fluent in the fundamentals of mathematics, through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately Can communicate, justify, argue, and prove using mathematical vocabulary.	Mid-phase assessment Weekly homework Pre-Public Examination
	Algebra- 1	Simplifying expressions, expand expressions, factorise expressions, substitute into expressions, rearrange formulae, solving linear equations.		
2	Geometry and Measures -1	Derive and use the sum of angles in a triangle and in a quadrilateral, exterior and interior angles of polygons, reflection, rotation, translation, and enlargement, convert between metric speed measures. Formula to calculate speed and acceleration. Solve problems involving compound measures.	Can solve problems by applying their mathematics to a variety of routine and non-routine problem Can break down problems into a series of simpler steps and preserving in seeking solutions.	Mid-phase assessment Weekly homework End of Term written assessments
	Statistics & probability- 1	Tables and data collection sheets, bar charts, line graphs and box plots, cumulative frequency, time series graphs, trends, stem and leaf, pie charts, scatter graphs. Averages & tables.		
3	Ratio & proportion- 1	Calculate rates, convert between metric speed measures, use a formula to calculate speed and acceleration, compound measures, relationships involving ratio, direct and indirect proportion. Compare, find quantities, and solve problems involving ratios.	Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.	Mid-phase assessment Weekly homework Pre-Public Examination
	Number- 2	Fractions, percentages, reciprocals, and surds.		
4	Algebra- 2	Quadratics and simultaneous equations.		Mid-phase assessment Weekly homework End of Term written assessments
	Geometry and Measures -2	Perimeter, area, volume, surface area. Arc lengths, angles and area of sectors of circles. Pyramids and cones. Pythagoras and trigonometry.		
4	Statistics & probability 2	Understand how to calculate probability, interpret, and draw sample space diagrams, Venn diagrams, frequency trees and probability trees		
	Algebra- 3	Arithmetic, geometric, and quadratic sequences. Fibonacci like sequences.		
	Geometry and Measures -3	Congruent and similar shapes		