

| Overview of the year for (Year 11 Set 6): | | 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 Algebra- 1 | Place value, BIDMAS, simplify calculations, inverses, rounding, Multiply and divide decimal numbers, significant figures, estimation, prime numbers, factors and multiples, square roots and cube roots, powers, fractions, decimals and percentages, percentage change, estimation, and best buys. Algebraic expressions, collecting like terms, multiplying, and dividing algebra, substitution, algebra terminology, expanding brackets, factorising expressions, Index laws, coordinates, midpoints, plotting straight-line graphs, distance-time graphs, linear equations, linear sequences. | Can communicate, justify, argue and prove using mathematical vocabulary. 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 Pre-Public Examination |
| 2 | Ratio & proportion- 1 Geometry and Measures -1 | Simplifying ratios, dividing in a ratio, recipes. Geometric notation, points and lines, properties of 2D shapes, angle on a line, angles around a point, on parallel lines, in a triangle, in polygons, translations, reflections, enlargements, rotations, describing transformations. Nets of 3D shapes, metric units, Units of measure: Length, mass, volume/capacity, time, area. Currency conversion, compound units: Speed. Angles: Measuring and Drawing. Calculating perimeter and area. Circles, circumference, circle area, surface area, volume of cuboids | 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 End of Term written assessment |
| 3 | Probability- 1 Statistics- 1 | Probability scale, probability of single events, experimental probability, multiple event probability, listing elements in a set, frequency trees, listing systematically. Collecting data, frequency tables, two-way tables, bar charts, pictograms, pie charts, stem and leaf diagrams, averages, scatter graphs | 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. | Mid-phase assessment Weekly homework End of Term written assessment Pre-Public Examination |
| 4 | REVISION | Knowledge based on areas of weakness informed by PLCs from Pre-Public Examination; fix up five from Hegarty, PLCs from previous assessments and homework's. (Unique to each group/ child) | Exam skills, time management, revision skills | Mid-phase assessment Weekly homework End of Term written assessment |