Overview of the year:	Ways to consolidate and extend your learning in Maths:
Number	Can use Maths genie questions & worked solutions.
Algebra	Use of Corbett- Maths
Ratio and Proportion	Use of Maths Watch
Geometry and Measures	Weekly Hegarty maths HW with assigned 'fix up five' clip numbers
Statistics and Probability	Use Lesson PPTs and revision specific materials uploaded on Microsoft Teams.

Half Term	Unit title	Knowledge	Skills	Assessment
1	Number- 1 Algebra- 1 Statistics- 1	BIDMAS, Simplify calculations, inverses, rounding, Multiply and divide decimal numbers, significant figures, estimation, prime numbers, factors and multiples, square roots and cube roots, powers, surds. Algebraic notation. Write and simplify expressions, index laws, formulae, substitution, expand brackets, factorise algebraic expressions, write expressions and simple formulae to solve problems. Tables and data collection sheets, bar charts, line graphs and histograms, time series graphs, trends, stem and leaf, pie charts, scatter graphs, line of best fit on a scatter graph.	Basic number skills, Can solve problems by applying their mathematics to a variety of routine and non-routine problems. Can break down problems into a series of simpler steps and preserve in seeking solutions. Graphical/statistical skills – analysing data from graphs	Mid-phase assessment Weekly homeworks
2	Number-2 Algebra -2	Compare, multiply, divide add and subtract fractions, fraction of a quantities, convert fractions to decimals and percentages and vice versa. Use decimals to find quantities. Percentage change. Understand and use inverse equations, rearrange & solve linear equations, use correct notation to show inclusive and exclusive inequalities, solve linear inequalities, substitution, know the difference between an expression, an equation, a formula and an identity. Arithmetic sequences, nth terms.	Basic number skills, Can solve problems by applying their mathematics to a variety of routine and non-routine problems. Can break down problems into a series of simpler steps and preserve in seeking solutions.	Mid-phase assessment Weekly homeworks End of term written assessment
3	Geometry and Measures -1 Statistics- 2 Geometry and Measures -2	Angles in triangles, quadrilaterals, regular and irregular polygons. Calculation, estimation and interpretation of averages and range. Calculation and estimation of perimeter area and volume, conversion of units.	Reason mathematically, critical thinking problem solving, analytical thinking quantitative reasoning	Mid-phase assessment Weekly homeworks
4	Algebra -3 Geometry and Measures -3	Recognise, draw and interpret straight line graphs, distance time graphs and real-life graphs. Know how to describe and carry out all transformations, rotation, enlargement, reflection and translation.	Can communicate, justify, argue and prove using mathematical vocabulary. critical thinking, problem solving, quantitative reasoning,	Mid-phase assessment Weekly homeworks End of term written assessment
5	Ration & proportion- 1 Geometry- 4 Probability- 1	Know and use ratio and proportion in comparing amounts, sharing amounts, shapes and other problems. Pythagoras theorem and Trigonometry. Understand how to calculate probability, interpret and draw sample space diagrams, venn diagrams and probability trees	Can solve problems by applying their mathematics to a variety of routine and non-routine problems. Can break down problems into a series of simpler steps and preserve in seeking solutions	Mid-phase assessment Weekly homeworks
6	Ratio and proportion- 2 Geometry-5	Multiplicative reasoning. Construction, loci and bearings	Can break down problems into a series of simpler steps and preserve in seeking solutions.	Mid-phase assessment Weekly homeworks Pre public examination