400 YEARS OF EXCELLENCE

MATHEMATICS: Curriculum Overview

Year 9

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 9 Autumn 1	*Upper and middle sets* Number work, algebra, congruency, geometry,data, multiplying brackets. *Lower sets* Sequences,graphs,linear equations,decimals,ratio,%, fractions	Indices, expansion of bracket, factorise, constructions, polygon properties, averages, range, frequency graphs. Using difference tables, interpreting graphs, lines on a graph, gradient, ordering and 4 functions with decimals/fractions, sharing in a ratio.	Test in penultimate week before October HT. *(plus marking of exercise books throughout the term)*
Year 9 Autumn 2	*Upper and middle sets* Scatter graphs, indices, applying maths, solving equations. *Lower sets* Percentage change, rounding, brackets, angles	line of best fit, solving using trial and improvement, index rules In/decrease, decimal places, significant figures, expanding a bracket, collect like terms, shape and parallel line angle rules	Test in the week before Xmas break. *(plus marking of exercise books throughout the term)*
Year 9 Spring 1	*Upper and middle sets* Sequences,3D shapes, transformations, volume, %, area and volume, ratio. *Lower sets* Construction, BIDMAS,	Finding the nth rule, isometric drawing, reflection,rotation,translation, enlargements, volume of prisms, unitary method Using compasses, order, averages, metric measures,negatives, time, probability	No formal test this half term. (*Marking of exercise books throughout the term)*
Year 9 Spring 2	*Upper and middle sets* Applying maths, simultaneous equations, interpreting graphs, loci, map scales, %. *Lower sets* Number, area, estimation, symmetry, graphs	graph and algebra solutions, real life graphs, compass work, metric conversion Squares,cubes,factors, primes, rounding methods, area units,2D reflections, midpoints on graphs	Test in the week before Easter break. *(plus marking of exercise books throughout the term)*
Year 9 Summer 1	*Upper and middle sets* Trigonometry, Pythagoras, inequalities, compound measures *Lower sets* Formulae, scale drawing, ratios	solving problems in triangles, use speed and density formulae, number lines Substitution,solving, using formulae, compasses and protractor work, ratio division	No formal test this half term. *(plus marking of exercise books throughout the term)*
Year 9 Summer 2	*Upper and middle sets* Revision, similar shapes,curved graphs, proof. probability. *Lower sets* Revision, 3D, straight lines, bearings, 2D shape	similarity and congruence, properties of graphs, expectation and tree diagrams Properties of 2/3D shapes, using a compass, equation of a straight line	End of Year Exams, usually first week back after May half term. Setting for Y8 will be based on performance across the year, but most heavily based on summer exam.