



SUBJECT: Curriculum Overview

Year 8

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 8 Autumn 1	<i>Upper and Middle Sets</i> Sequences, Fractions, Properties of Numbers, Negative Numbers, Area and Perimeter, Rounding off and estimating <i>Lower sets</i> Negative Numbers, Graphs, Angles and Polygons, Symmetry, Three Dimensions, Decimals, Formulae & Expressions	use of difference tables to recognise quadratic; all 4 functions; recap, primes etc.; recap of all 4 functions; all quadrilaterals; using one sig figure all 4 functions; interpreting and drawing conversion graphs; drawing and calculating; drawing and recognising line symmetry in 2D; isometric drawing and recognising basic 3D shapes; all 4 functions; forming and substitution	Test in penultimate week before October HT. <i>(plus marking of exercise books throughout the term)</i>
Year 8 Autumn 2	<i>Upper and Middle Sets</i> Using Algebra, Fractions, Decimals, %, Geometrical Reasoning, Constructions and Locus, Circles, Written Calculations, Using a Calculator, Using Formulas and Expressions <i>Lower sets</i> Equations, Computation, Coordinates, Multiples and Factors	substitution, forming formulae; conversions and using them; proof of angle facts in shapes and parallel lines; use of compasses eg bisectors; use of area and circumference formulae; problem solving; learning techniques; more complex solving 2 step equations with/out brackets; use of a calculator to solve problems; all 4 quadrants, drawing line equations; recap	Test in the week before Xmas break. <i>(plus marking of exercise books throughout the term)</i>
Year 8 Spring 1	<i>Upper and Middle Sets</i> Drawing Graphs, Reflection, Handling Data, Rotation and Combined Transformations, Interpreting and sketching real life graphs <i>Lower sets</i> Oral & Mental starters, Fractions, Percentages, Tables and Charts	linear and curved graphs; 2D and symmetry; checking properties; stem and leaf, all averages from a table; on coordinate axes using all 4 transformations including travel graphs all 4 functions with mixed numbers; calculating in- and decreases; drawing and interpreting graphs, 2-way tables and statistical graphs	No formal test this half term. <i>(Marking of exercise books throughout the term)</i>
Year 8 Spring 2	<i>Upper and Middle Sets</i> Brackets and Equations, Handling Data, Ratio and Proportion, Sequences, nth term <i>Lower sets</i> Two Variables, Patterns & Sequences, Measures, Revision Number	expansion of one and two brackets; further comparison of data sets; unitary method, simplify and calculate; quadratic and linear nth terms substitution and drawing of linear equations; simple term to term rules, including Fibonacci; practical measuring, conversion of metric units	Test in the week before Easter break. <i>(plus marking of exercise books throughout the term)</i>
Year 8 Summer 1	<i>Upper and Middle Sets</i> Enlargement, Congruent Shapes and Tessellations, Percentages, Probability, Pythagoras[only top 3 sets] <i>Lower sets</i> Perimeter & Area, Volume & Capacity, Averages	all scale factors on or not on coordinate axes; recognition of properties of congruence; use of multiplier; further calculation and estimation of events; derivation and use of formula basic 2D shapes, all quadrilaterals; measurement and conversion of metric units; all 3 in raw data and tables	No formal test this half term. <i>(plus marking of exercise books throughout the term)</i>
Year 8 Summer 2	<i>Upper and Middle Sets</i> Drawing 3D Objects; Bearings and Scale Drawing; Revision and review of previous topics; Volume of Objects <i>Lower sets</i> Probability; Revision; Investigations	isometric paper; maps and rules of bearings cuboids, prisms and pyramids; simplifying, simple graphs, equally likely events	End of Year Exams

