

Curriculum Plan for Mathematics

Exam Board: Edexcel
 More information can be found at: Edexcel website

Year 7	Year 8	Year 9	Year 10	Year 11
<p>Autumn Term Place values, mental calculation strategies, rounding, decimal notation, converting fractions and decimals, multiplication and division.</p> <p>Spring Term Units of measure, types of angles and angle facts, triangles and quadrilaterals, symmetry and tessellation, fractions, decimals and percentages.</p> <p>Summer Term Order of operation, sequences, substitution, collecting terms, expanding and factoring brackets, percentages of amounts, handling data.</p>	<p>Autumn Term Factors, multiples, primes, squares & cubes. Addition & subtraction of fractions. Negative numbers. Linear equations. Sequences.</p> <p>Spring Term Construct triangles & quadrilateral. Calculate angles. Area & perimeter. Percentage calculations. Ratio. Speed, distance, time.</p> <p>Summer Term Estimation. Circles. 3-D shapes. Interpret statistical data. Averages.</p>	<p>Autumn Term Co-ordinates & linear graphs. Proportion. Standard form. Sequences. Expand & factorise. Change the subject of a formula.</p> <p>Spring Term Construction & loci. Congruence & similarity. Pythagoras' theorem. Angles in polygons. Equations & inequalities. Graphs.</p> <p>Summer Term Probability. Mean of grouped data. Scatter graphs. Transformations. Trigonometry.</p>	<p>Autumn Term Calculate with indices & standard form. Growth & decay including compound interest. Linear & non-linear sequences. Enlargement. Similar shapes. Bearings. Trigonometry in right-angled triangles.</p> <p>Spring Term Algebraic arguments. Geometric reasoning. Equations of parallel lines. Vectors. Properties of 3-D shapes. Surface area & volume of pyramids, cones & spheres. Estimation & limits of accuracy. Loci. Geometric proof.</p> <p>Summer Term Probability including sample spaces, tree diagrams & Venn diagrams. Expand & factorise quadratics. Quadratic equations. Simultaneous equations. Graphs including cubic & reciprocal. Graphical solutions of equations.</p>	<p>Autumn Term Arcs & sectors of circles. Direct & inverse variation. Geometric & algebraic proof. Statistical representation & interpretation. Correlation & lines of best fit.</p> <p>Spring & Summer Terms During the Spring & Summer terms the Higher Level GCSE students study functions, transformation of graphs, numerical methods, gradient of curves & area under graphs.</p> <p>The Foundation Level students consolidate their learning and revise & practice their basic skills.</p> <p>All students practice examination questions and problem solving in context in preparation for the GCSE examination.</p>

Apps or websites used:
 TT Rockstars