

## Edexcel Foundation Level GCSE

	Autumn Term	Spring Term	Summer Term
Year 10	<ul style="list-style-type: none"> <li>• Use the order of arithmetic operations</li> <li>• Round numbers using decimal places and significant figures</li> <li>• Identify factors and multiples</li> <li>• Use squares, cubes and roots</li> <li>• Use the laws of indices</li> <li>• Find the prime factorisation of numbers</li> <li>• Simplify algebraic expressions</li> <li>• Substitute into expressions and formulae</li> <li>• Expand brackets and factorise using common factors</li> <li>• Read data from tables</li> <li>• Draw and interpret (composite) bar charts, line graphs, time series graphs, stem and leaf diagrams, pie charts and scatter graphs</li> <li>• Compare and calculate with fractions</li> <li>• Convert between fractions, decimals and percentages</li> <li>• Calculate using percentages</li> <li>• Form and solve linear equations and inequalities</li> <li>• Find the general term of a linear sequence</li> </ul>	<ul style="list-style-type: none"> <li>• Recognise properties of shapes including congruency</li> <li>• Use the angle properties of parallel lines, triangles and other polygons</li> <li>• Calculate the mean, median, mode and range of a set of numbers</li> <li>• Use frequency tables including grouped</li> <li>• Find the areas of rectangles, triangles, parallelograms, trapezia and compound shapes</li> <li>• Find the surface area and volumes of cuboids and prisms</li> <li>• Plot straight line graphs</li> <li>• Use the general equation of a straight line</li> <li>• Use real-life graphs</li> <li>• Draw and describe translations, reflections, rotations and enlargements</li> <li>• Solve problems using ratios and proportion</li> <li>• Recognise direct and inverse proportion</li> </ul>	<ul style="list-style-type: none"> <li>• Solve problems using Pythagoras' Theorem and trigonometry</li> <li>• Calculate probabilities from equally likely events</li> <li>• Use two-way tables and tree diagrams to solve probability problems</li> <li>• Estimate probabilities from experimental data</li> <li>• Use Venn diagrams and the symbols and language associated with them</li> <li>• Calculate percentage profit and loss</li> <li>• Solve growth and decay problems</li> <li>• Solve problems involving compound measures</li> <li>• Find and use formulas for direct and inverse proportion</li> </ul>
Year 11	<ul style="list-style-type: none"> <li>• Name and explore the properties of 3D shapes</li> <li>• Use plans and elevations of 3D shapes</li> <li>• Give reasons for triangles being congruent</li> <li>• Use scale drawings and maps</li> <li>• Complete standard constructions using rulers and compasses</li> <li>• Draw loci</li> <li>• Use bearings</li> <li>• Multiply double brackets</li> <li>• Plot and use quadratic graphs</li> <li>• Factorise quadratic expressions</li> </ul>	<ul style="list-style-type: none"> <li>• Use standard form</li> <li>• Draw and describe enlargements</li> <li>• Use similarity to solve problems</li> <li>• Use congruence to work out unknown sides</li> <li>• Add, subtract and find multiples of vectors</li> <li>• Draw and interpret graphs of cubic and reciprocal functions</li> <li>• Solve simultaneous equations graphically and algebraically</li> <li>• Change the subject of a formula</li> </ul>	<ul style="list-style-type: none"> <li>• Revision and practice using past papers</li> <li>• Examinations</li> </ul>

	<ul style="list-style-type: none"><li>• Solve quadratic equations graphically and algebraically</li><li>• Use the formulae for the circumference and areas of circles</li><li>• Calculate the volume and surface areas of cylinders, pyramids, cones and spheres</li></ul>	<ul style="list-style-type: none"><li>• Prove results using algebra</li></ul>	
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## Edexcel Higher Level GCSE

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Year 10	<ul style="list-style-type: none"> <li>Enumerate combinations of events</li> <li>Estimate answers using place value</li> <li>Use factors, multiples and primes</li> <li>Use the laws of indices with numbers and algebra</li> <li>Use standard form</li> <li>Use and simplify surds</li> <li>Expand (double) brackets and factorise expressions using common factors</li> <li>Solve linear equations</li> <li>Substitute into formulas</li> <li>Change the subject of a formula</li> <li>Find the general terms of linear and quadratic sequences</li> <li>Factorise quadratics</li> <li>Construct and use back-to-back stem and leaf diagrams, frequency polygons, pie charts, time series graphs and scatter graphs</li> <li>Use grouped frequency tables to find averages and measures of spread</li> <li>Construct and use two-way tables</li> <li>Calculate with fractions</li> <li>Solve problems involving ratios and proportion</li> <li>Solve real-life problems with percentages</li> <li>Convert between fractions, decimals and percentages</li> <li>Use angle properties of triangles, quadrilaterals and other polygons</li> <li>Solve problems using Pythagoras' Theorem and trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>Plot straight line and other graphs</li> <li>Use the general equation for a straight line</li> <li>Understand rates of change in graphs</li> <li>Use real-life graphs to solve problems</li> <li>Solve equations using graphs</li> <li>Recognise the shapes of graphs and their equations (cubic, reciprocal, circle etc.)</li> <li>Calculate the areas and volumes of shapes</li> <li>Use plans and elevations of 3D shapes</li> <li>Draw and describe translations, reflections, rotations and enlargements</li> <li>Draw and use scale drawings</li> <li>Solve problems involving bearings</li> <li>Complete standard constructions using rulers and compasses</li> <li>Draw loci</li> <li>Rearrange and solve quadratic equations</li> <li>Use the quadratic formula</li> <li>Complete the square for quadratic expressions</li> <li>Solve simultaneous equations</li> <li>Solve linear inequalities</li> <li>List and enumerate all the possible outcomes of two or more events</li> <li>Calculate the probabilities of events</li> <li>Use two-way tables and tree diagrams to solve probability problems</li> <li>Estimate probabilities from experimental data</li> <li>Use Venn diagrams and the symbols and language associated with them</li> </ul>	<ul style="list-style-type: none"> <li>Calculate repeated percentage change</li> <li>Solve growth and decay problems</li> <li>Use compound measures</li> <li>Solve problems involving direct and inverse proportion</li> <li>Recognise the conditions for the congruency of triangles</li> <li>Use similarity to solve problems including in 3D shapes</li> <li>Recognise, plot, sketch and use trigonometric graphs</li> <li>Solve problems involving the area of a triangle, sine and cosine rules</li> <li>Transform trigonometric graphs</li> </ul>
Year 11	<ul style="list-style-type: none"> <li>Understand how to take random and stratified samples</li> </ul>	<ul style="list-style-type: none"> <li>Change the subject of a formula</li> <li>Simplify and use algebraic fractions and surds, including solving equations</li> </ul>	<ul style="list-style-type: none"> <li>Revision and practice using past papers</li> <li>Examinations</li> </ul>

	<ul style="list-style-type: none"><li>• Draw and use cumulative frequency graphs, box plots and histograms</li><li>• Compare sets of data</li><li>• Solve simultaneous equations graphically</li><li>• Represent inequalities on graphs</li><li>• Draw and use quadratic and cubic graphs</li><li>• Solve problems and complete proofs using the circle theorems</li><li>• Find the equation of a tangent to a circle</li><li>•</li></ul>	<ul style="list-style-type: none"><li>• Use function notation for compound and inverse functions</li><li>• Prove results using algebra</li><li>• Solve problems using vectors</li><li>• Write and use equations to solve direct and inverse proportion problems</li><li>• Recognise exponential functions</li><li>• Calculate the gradient of a graph at a point and estimate the areas under non-linear graphs</li><li>• Transform the graphs of functions</li></ul>	
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