EDEXCEL HIGHER GCSE MATHS EXAMINATION BOARD COVERAGE

Education, Anywhere, Anytime

TOPIC	SUB HEADING
SECTION ONE - NUMBER	Types of Number and BIDMAS (BODMAS)
	Multiples, Factors and Prime Factors
	LCM and HCF
	Fractions
	Fractions, Decimals and Percentages
	Fractions and Recurring Decimals
	Rounding Numbers
	Estimating
	Bounds
	Standard Form
SECTION TWO - ALGEBRA	Algebra Basics
	Powers and Roots
	Multiplying Out Brackets
	Factorising
	Manipulating Surds
	Solving Equations
	Rearranging Formulas

	Factorising Quadratics
	The Quadratic Formula
	Completing the Square
	Algebraic Fractions
	Sequences
	Inequalities
	Graphical Inequalities
	Iterative Methods
	Simultaneous Equations
	Proof
	Functions
SECTION THREE - GRAPHS	Straight Lines and Gradients
	$y = mx + c$
	Drawing Straight-Line Graphs
	Coordinates and Ratio
	Parallel and Perpendicular Lines
	Quadratic Graphs
	Harder Graphs
	Solving Equations Using Graphs
	Graph Transformations
	Real-Life Graphs
	Distant-Time Graphs
	Velocity-Time Graphs
	Gradients of Real-Life Graphs

SECTION FOUR - RATIO, PROPORTION AND RATES OF CHANGE	Ratios
	Direct and Inverse Proportion
	Percentages
	Compound Growth and Decay
	Unit Conversions
	Speed, Density and Pressure
SECTION FIVE - GEOMETRY AND MEASURE	Geometry
	Parallel Lines
	Geometry Problems
	Polygons
	Triangles and Quadrilaterals
	Circle Geometry
	Congruent Shapes
	Similar Shapes
	The Four Transformations
	Area - Triangles and Quadrilaterals
	Area - Circles
	3D Shapes - Surface Area
	3D Shapes - Volume
	More Enlargements and Projections
	Triangle Construction
	Loci and Construction
	Bearings
SECTION SIX - PYTHAGORAS AND TRIGONOMETRY	Pythagoras' Theorem

	Trigonometry - Sine, Cosine and Tangent
	Trigonometry - Common Values
	The Sine and Cosine Rules
	3D Pythagoras
	3D Trigonometry
	Vectors
SECTION SEVEN - PROBABILITY AND STATISTICS	Probability Basics
	Counting Outcomes
	The AND/OR Rules
	Tree Diagrams
	Conditional Probability
	Sets and Venn Diagrams
	Sampling and Data Collection
	Mean, Median, Mode and Range
	Frequency Tables - Finding Averages
	Grouped Frequency Tables
	Box Plots
	Cumulative Frequency
	Histograms and Frequency Density
	Scatter Graphs
	Other Graphs and Charts
	Comparing Data Sets