

CCEA HIGHER GCSE MATHS EXAMINATION BOARD COVERAGE

TOPIC	SUB HEADING - (Learners Cloud video names are generic to all UK GCSE examination boards so may vary slightly)
SECTION ONE - NUMBER	Types of Number and BODMAS (BIDMAS)
	Multiples, Factors and Prime Factors
	LCM and HCF
	Fractions
	Fractions, Decimals and Percentages
	Fractions and Recurring Decimals
	Rounding Numbers
	Estimating
	Bounds
	Standard Form
	Different Number System
SECTION TWO - RATIO, PROPORTION AND PERCENTAGES	Ratios
	Direct Proportion Problems
	Inverse Proportion Problems
	Harder Proportion Problems
	Percentages
	Repeated Percentage Change
SECTION THREE - ALGEBRA	Algebra Basics
	Multiplying Out Brackets
	Factorising
	Powers
	Powers and Roots
	Manipulating Surds
	Solving Equations
	Expression and Formulas
	Expression, Formulas and Functions

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	Trial and Improvement
	Rearranging Formulas
	Factorising Quadratics
	The Quadratic Formula
	Algebraic Fractions
	Simultaneous Equations
	Inequalities
	Graphical Inequalities
	Sequences
SECTION FOUR - GRAPHS	Straight-Line Graphs and Gradients
	Line Segments
	$y = mx + 3$
	Parallel and Perpendicular Lines
	Quadratic Graphs
	Harder Graphs
	Solving Equations Using Graphs
	Real-Life Graphs
	Distance-Time Graphs
	Gradients of Real-Life Graphs
SECTION FIVE - MEASURES AND ANGLES	Unit Conversions
	Speed, Density and Pressure
	Five Angle Rules
	Parallel Lines
	Geometry Problems
	Angles in Shapes
	Bearings
	Circle Geometry
	Pythagoras' Theorem
	Trigonometry
	The Sine and Cosine Rules
	3D Pythagoras
	3D Trigonometry
SECTION SIX - SHAPES AND AREA	Properties of 2D Shapes
	Similar Shapes

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	Area - Triangle and Quadrilaterals
	Area - Circles
	Plans and Elevations
	3D Shapes - Surface Area
	3D Shapes - Volume
	Construction
	Loci and Construction
	Translation, Rotation and Reflection
	Enlargement
	Enlargement - Area and Volume
SECTION SEVEN - STATISTICS AND PROBABILITY	Planning and Investigation
	Sampling and Data Collection
	Venn Diagrams
	Other Charts and Graphs
	Scatter Graphs
	Mean, Median, Mode and Range
	Frequency Tables - Finding Averages
	Grouped Frequency Tables
	Averages and Spread
	Cumulative Frequency
	Histograms and Frequency Density
	Probability Basics
	Counting Outcomes
	Expected Frequency
	The AND/OR Rules
	Tree Diagrams