

OCR FOUNDATION 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 BIDMAS
	Real-Life Problems
	Multiplying and Dividing by 10,100, etc.
	Multiplying and Dividing Whole Numbers
	Multiplying and Dividing with Decimals
	Negative Numbers
	Prime Numbers
	Multiples, Factors and Prime Factors
	LCM and HCF
	Fractions without a Calculator
	Fraction Problems
	Fractions, Decimals and Percentages
	Rounding Numbers
	Estimating
	Rounding Errors
	Powers
	Roots
	Standard Form
SECTION TWO - ALGEBRA	Algebra - Simplifying
	Algebra - Multiplying and Dividing
	Multiplying Double Brackets
	Factorising

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	Solving Equations
	Expressions, Formulas and Functions
	Formulas and Equations from Words
	Formulas and Equations from Diagrams
	Rearranging Formulas
	Sequences
	Inequalities
	Quadratic Equations
	Simultaneous Equations
	Proof
SECTION THREE - GRAPHS	Coordinates and Midpoints
	Straight-Line Graphs
	Drawing Straight-Line Graphs
	Straight-Line Graphs - Gradients
	Straight-Line Graphs - $y = mx + c$
	Using $y = mx + c$
	Quadratic Graphs
	Harder Graphs
	Solving Equations Using Graphs
	Distance-Time Graphs
	Real-Life Graphs
SECTION FOUR - RATIO, PROPORTION AND RATES OF CHANGE	Ratios
	Direct Proportion problems
	Inverse Proportion Problems
	Percentages
	Harder Percentage Problems
	Compound Growth and Decay
	Unit Conversions
	Area and Volume Conversions

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	Time Intervals
	Speed, Density and Pressure
SECTION FIVE - SHAPES AND AREA	Properties of 2D Shapes
	Congruent Shapes
	Similar Shapes
	The Four Transformations
	Perimeter and Area
	Perimeter and Area - Circles
	3D Shapes
	3D Shapes - Surface Area
	3D Shapes - Volume
	Harder Volume Problems
	Projections
SECTION SIX - ANGLES AND GEOMETRY	Angle Basics
	Five Angle Rules
	Parallel Lines
	Geometry Problems
	Polygons
	Triangle Construction
	Loci and Construction
	Bearings
	Maps and Scale Drawings
	Pythagoras' Theorem
	Trigonometry - Sine, Cosine and Tangent
	Trigonometry - Common Values
	Vectors - Theory
SECTION SEVEN - PROBABILITY AND STATISTICS	Probability Basics
	More Probability
	The AND/OR Rules

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	Tree Diagrams
	Sets and Venn Diagrams
	Sampling and Bias
	Collecting Data
	Mean, Median, Mode and Range
	Simple Charts and Graphs
	Pie charts
	Scatter Graphs
	Frequency Tables - Finding Averages
	Grouped Frequency Tables
	Interpreting Data
	Comparing Data Sets