

Topic

Sub-heading

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
	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
	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

Note: Learners Cloud video names are generic across all UK leading exam boards, so may vary slightly