Higher paper 1

Paper 1H – grouped by content area

Number (*see Ratio – some overlap of topic areas)	
Fractions	Fraction of an amount
	Fraction arithmetic
	Recurring decimal to fraction
Properties	Product of prime factors
	Negative and fractional indices
Powers and roots	Simplification of surds
Standard Form	Conversion
	Calculation

Algebra	
Manipulation	Simplification
	Expansion of brackets
	Algebraic fractions
Equations and inequalities	Linear inequality
	Form an equation
	Quadratic equation
	Equation of a tangent to a circle
Graphs	Quadratic graph
	Speed-time graph
	Gradients of parallel and perpendicular lines
	Gradient of a curve

Ratio, proportion and rates of change (*see Number – some overlap of topic areas)	
Percentages	Percentage of an amount
Ratio	Write as a ratio
	Use of ratio
	Share in a ratio
	Ratio to fraction
Proportion	Equations of proportion
Compound Measures	Density

Geometry and measures	
Angles	Angles in a polygon
Length, area and volume	Area of a triangle
	Volume of a cube
	Surface area of a cuboid
	Area of a sector
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem
	Exact trigonometric values
Vectors	Vector geometry

Probability	
Probability	Probability
	Independent combined events

Statistics	
Diagrams	Cumulative frequency graph
Measures	Mean
	Inter-quartile range

Higher paper 2

Paper 2H – grouped by content area

Number (*see Ratio – some overlap of topic areas)

Approximation and estimation	Error interval
Other	Use of a calculator

Algebra

Manipulation	Simplification
	Expansion of bracket
	Factorisation
	Laws of indices
Equations and inequalities	Linear equation
	Equations of parallel lines
	Form an equation
	Quadratic inequality
Graphs	Coordinates
	Transformations of functions
	Graphs of trigonometric functions
Functions	Inverse and composite functions

Ratio, proportion and rates of change (*see Number – some overlap of topic areas)

Conversions	Area
Percentages	Depreciation
Ratio	Use of ratio
Proportion	Direct proportion
	Currency conversion
	Inverse proportion
Compound measures	Pressure

Geometry and measures

Shape	Transformations
Angles	Circle theorems
Length, area and volume	Area of a rectangle
	Volume of composite solid
Pythagoras's Theorem and Trigonometry	Sine and Cosine Rules

Probability

Probability	Venn diagram
	Probability from a Venn diagram

Statistics

Diagrams	Box plot
Measures	Lower and upper quartiles
Populations	Compare distributions
	Capture-recapture method

Higher paper 3

Paper 3H – grouped by content area	
Number (*see Ratio – some overlap of topic areas)	
Arithmetic	Negative number
Properties	Laws of indices
Approximation and estimation	Bounds
Other	Product rule for counting
Algebra	
Manipulation	Simplification
	Expansion of bracket
	Substitute values
	Difference of two squares
	Expansion of brackets
	Change subject of a formula
	Forming an expression
	Algebraic fractions
Equations and inequalities	Set up and solve equation
	Simultaneous equations linear/quadratic
Graphs	Gradient of a straight line graph
Ratio, proportion and rates of change (*see Number – some overlap of topic areas)	
Conversions	Time
Percentages	Percentage decrease
	Depreciation
	Reverse percentage

Ratio	Write as a ratio
	1 : *n* form
	Share in a ratio
Proportion	Direct proportion
Compound Measures	Average speed
Growth and decay	General iterative processes
Geometry and measures	
Angles	Circle theorems
Length, area and volume	Area of a trapezium
	Similar triangles
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem
	Trigonometry
	Trigonometry in 3-D
Vectors	Column vectors
Probability	
Probability	Dependent combined events
Statistics	
Diagrams	Frequency polygon
	Histogram