

HIGHER TIER - EDEXCEL

	Paper 1	Paper 2	Paper 3
Number (*see Ratio – some overlap of topic areas)			
Arithmetic			Negative number
Fractions	Fraction of an amount		
	Fraction arithmetic		
	Recurring decimal to fraction		
Properties	Product of prime factors		
	Negative and fractional indices		Laws of indices
Powers and roots	Simplification of surds		
Standard Form	Conversion		
	Calculation		
Approximation and Estimation		Error interval	
			Bounds
Other		Use of a calculator	
			Product rule for counting

Algebra

Manipulation	Simplification	Simplification	Simplification
	Expansion of bracket	Expansion of bracket	Expansion of bracket
		Factorisation	
		Laws of indices	
			Substitute values
			Change subject of a formula
			Forming an expression
			Expansion of brackets
	Algebraic fractions		Difference of two squares
			Algebraic fractions
Equations and inequalities		Linear equation	
	Form an equation	Form an equation	
	Linear inequality		
	Quadratic equation		
		Quadratic inequality	
		Equations of parallel lines	
	Equation of a tangent to a circle		
		Set up and solve equation	
		Simultaneous equations linear /quadratic	
Graphs		Coordinates	
	Quadratic graph		
			Gradient of a straight line graph
	Gradients of parallel and perpendicular lines		
	Speed-time graph		
	Gradient of a curve		
	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)

Conversion		Area	Time
Percentages	Percentage of an amount		Percentage decrease
		Depreciation	Depreciation
			Reverse percentage
Ratio	Write as a ratio		Write as a ratio
	Use of ratio	Use of ratio	
			1 : n form
	Share in a ratio		Share in a ratio
	Ratio to fraction		
Proportion		Direct proportion	Direct proportion
		Currency conversion	
		Inverse proportion	
	Equations of proportion		
Compound Measures			Average speed
	Density		
		Pressure	
Growth and decay			General iterative processes

Geometry and measures

Shape		Transformations	
Angles	Angles in a polygon		
		Circle theorems	Circle theorems
Length, area and volume	Area of a triangle	Area of a rectangle	
			Area of a trapezium
	Area of a sector		
	Surface area of a cuboid		
	Volume of a cube		
		Volume of composite solid	
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem		Similar triangles
			Pythagoras's Theorem
		Sine and Cosine Rules	Trigonometry
	Exact trigonometric values		Trigonometry in 3-D
Vectors			Column vectors
	Vector geometry		

Probability

Probability	Probability		
		Venn diagram	
		Probability from a Venn diagram	
	Independent combined events		
			Dependent combined events

Statistics

Diagrams			Frequency polygon
	Cumulative frequency graph		
		Box Plot	
Measures	Mean		Histogram
		Lower and upper quartiles	
	Inter-quartile range		
Population		Compare distributions	
		Capture-recapture method	

General advice

- In addition to covering the content outlined in the advance information, students and teachers should consider how to:
 - manage their revision of parts of the specification which may be assessed in areas not covered by the advance information
- manage their revision of other parts of the specification which may provide knowledge which helps with understanding the areas being tested in 2022. • For specifications with

Subject specific section

- Advance information will be provided for each paper and for each tier of entry.
- The information is presented in approximate specification order and does not reflect the order of the questions.
 - Questions may be answerable using one or more of the indicated areas of specification content.
- The areas of content listed are suggested as key areas of focus for revision and final preparation, in relation to the May–June 2022 examinations.
 - The aim should still be to cover all specification content in teaching and learning.
 - Students may need to draw on prior knowledge and skills.
 - Students will still be expected to apply their knowledge to unfamiliar contexts.
- Students responses to questions may draw upon knowledge, skills and understanding from across the content listed when responding to questions.
 - Students will be credited for using any relevant knowledge from any other topic areas when answering questions.

This information is the same as the Pearson provided information except that it has been reduced in size to only include information for this specific tier of entry ... any queries to support@justmaths.co.uk ... www.justmaths.co.uk