MATHS HIGHER

Revision Guide

Paper 1 (non-calculator): Wednesday 5th December 2018 Paper 2 (calculator): Monday 10th December 2018 Paper 3 (calculator): Monday 17th December 2018

Each paper is 1 hour 30 minutes long. It is recommended that you use your class notes, http://vle. mathswatch.com and https://corbettmaths.com/contents/ to help with your revision. Below are the clips that are relevant to the topics that are to be tested.

MathsWatch is at **www.vle.mathswatch.co.uk** Your username is the same as your **mymaths username @bishopchalloner** Your password is **bishop**

When you log in, click on videos. Ensure that you have selected qualification as 'GCSE' to be able to view the appropriate clip numbers.

Algebra				
Торіс	MathsWatch?	Corbett?		
Algebraic manipulation and substitution				
Expanding brackets and factorising				
Expanding and simplifying, including quadratics				
Solving linear equations				
Rearranging formulae				
Factorising and solving quadratics				
Solving simultaneous equations, including with a quadratic				
Simplifying algebraic fractions				
Drawing quadratic/cubic graphs and solving equations				
graphically				
Inequalities and quadratic inequalities				
Sequences, including quadratic nth term				
Indices				
Graphical regions				
Distance-Time Graphs and Velocity-Time Graphs				
Straight Line Graphs				
Recognising graphs (cubic, reciprocal, trigonometric)				
Functions, including composite and inverse				
Estimating areas under curves				
Tangents to circles				
Iteration				
Transforming functions				
Proof				

Number, Ratio & Proportion				
Торіс	MathsWatch?	Corbett?		
Adding, subtracting, multiplying & dividing decimals				
Adding, subtracting, multiplying & dividing fractions				
Ordering fractions, decimals and percentages				
Converting recurring decimals to fractions				
LCM, HCF, prime factor decomposition				
Percentages of amounts				
Increase/decrease by a percentage				
Percentage change				
Reverse percentage problems				
Compound interest and depreciation				
Factors, multiples and primes				
Ratio (sharing in a given ratio)				
Proportion (including recipe questions, value for money and exchange rates)				
Direct and inverse proportion				
Similar shapes				
Compound measures				
Standard form				
Compound units (speed, distance, time; mass, density, volume)				
Bounds				
Estimation				
Indices including fractional and negative				
Surds, including rationalising denominators				

Handling Data and Geometry			
Торіс	MathsWatch?	Corbett?	
Averages & range			
Calculating probabilities			
Mutually exclusive events			
Listing outcomes			
Experimental probabilities			
Scatter Diagrams			
Tree diagrams			
Angles, including parallel lines and polygons			
Area & perimeter of rectangles and triangles			
Area & circumference of a circle			
Volume and surface area of prisms			
Pythagoras' Theorem			
Venn Diagrams and Set Notation			
Area of compound shapes			
Trigonometry, including 3D trigonometry			
Areas of sectors			
Vectors			
Polygons			
Cumulative Frequency, Box Plots and IQR			
Histograms			
Circle Theorems			
Loci			
Transformations (rotation, reflection, translation, enlargement including negative scale factors)			
Nets, plans & elevations			
Nets, plans and elevations			