

# MATHS FOUNDATION

## 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](http://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.

Number, Ratio & Proportion		
Topic	MathsWatch?	Corbett?
Ordering numbers		
Adding, subtracting, multiplying & dividing decimals		
Adding, subtracting, multiplying & dividing fractions		
Ordering fractions, decimals and percentages		
Percentages of amounts		
Increase/decrease by a percentage		
Compound interest		
Ratio (sharing in a given ratio)		
Proportion (including recipe questions and value for money)		
Compound Units (including speed, distance, time and mass, density and volume)		
Factors, multiples & primes, including prime factor decomposition		
Exchange rates		
Standard Form		
Bounds		
Unit conversion (grams, kilograms, metres, centimetres, kilometres)		
BIDMAS		
Proportion including map scales		
LCM and HCF		

**Algebra**

<b>Topic</b>	<b>MathsWatch?</b>	<b>Corbett?</b>
Algebraic Manipulation		
Expanding brackets		
Factorising		
Substitution		
Expanding and simplifying, including quadratics		
Solving linear equations		
Rearranging formulae		
Factorising and solving quadratics		
Straight line graphs: drawing and solving		
Drawing quadratic/cubic graphs		
Distance-time graphs		
Sequences		
Solving linear inequalities and representing on a number line		

**Handling Data and Geometry**

<b>Topic</b>	<b>MathsWatch?</b>	<b>Corbett?</b>
Averages & range		
Coordinates		
The probability scale		
Calculating probabilities		
Mutually exclusive events		
Listing outcomes/combinations		
Experimental probabilities		
Frequency trees		
Tree diagrams		
Venn Diagrams and Set Notation		
Pythagoras' Theorem		
Angles (parallel lines, in a triangle, at a point)		
Angles in polygons		
Area & perimeter of shapes		
Area & circumference of a circle		
Tally charts & bar charts, including comparisons		
Stem & leaf diagrams		
Transformations		
Venn Diagrams		
Scatter Diagrams		
Frequency Polygons		
Trigonometry		
Conversion Graphs		
Loci and construction		
Nets, plans and elevations		