

Maths

In November, you will sit two papers for Maths

- Paper 1 Non calculator 1 hour 30
- Paper 2 Calculator 1 hour 30

The following equipment is required for each exam:

- Compass
- Protractor
- Pen
- Pencil
- Ruler

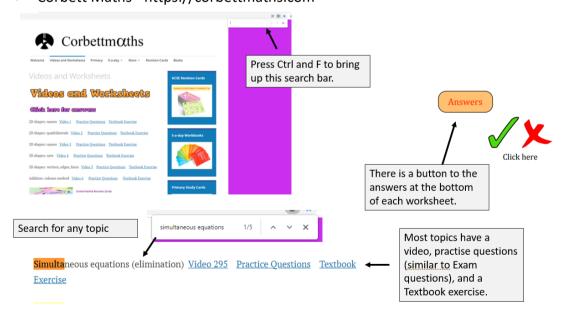
It is essential that you bring your calculator to paper 2 as we are unable to lend out any equipment.

Grades

- At Foundation, you can achieve 5 − 1
- At Higher, you can achieve 9 4
- Grade 5 is a strong pass and grade 4 is a standard pass. There is a 40% overlap between the two tiers.
- We always work towards moving you up to the next grade.
- To remain on higher, you will need to secure a minimum of a secure grade 4 in the November mock exam.

Revision

Corbett Maths - https://corbettmaths.com



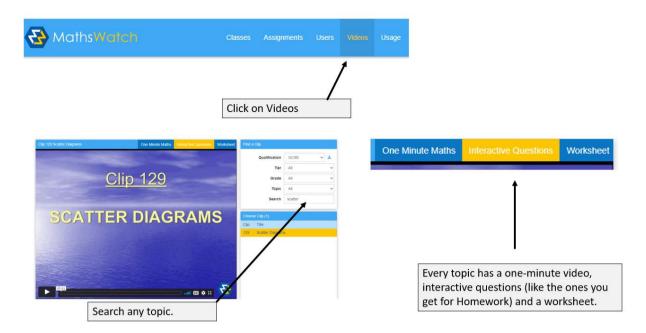


Address: Beckfoot School, Wagon Lane, Bingley BD16 1EE
Email: admin@beckfoot.org Tel: 01274 771444

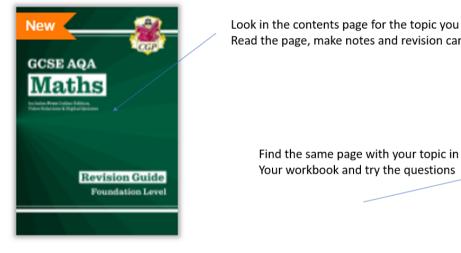
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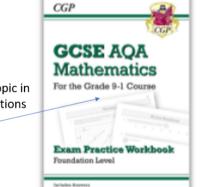
Mathswatch - https://vle.mathswatch.co.uk/vle



CGP Revision Guides



Look in the contents page for the topic you need. Read the page, make notes and revision cards.



Past Papers: https://www.mathsgenie.co.uk/AQApapers.html

It's a good idea to try a past paper before the mock exam. Why not try some practice papers?



GCSE MATHEMATICS



Foundation Tier Paper 1 Non-Calculator

Don't forget to check your answers. Tick if right, correct if not and circle if unsure – seek support when back in school for the ones you are unsure about.

Next Assessments

- You will sit one assessment per half term in year 11. These will feed into your report and help you prepare for the real exams.
 - June Retrieval Assessment
 - **September** Retrieval Assessment
 - November Mock Exam Paper 1 and 2
 - **December** Paper 3
 - February Mock Exam Paper 1 and 2

Final Exam

• The final exam consists of three exam papers at the end of year 11

Paper 1:	Paper 2:	Paper 3:
Non-Calculator	Calculator	Calculator
Content from any	Content from any	Content from any
part of the course	part of the course	part of the course
may be assessed	may be assessed	may be assessed
1 hour 30	1 hour 30	1 hour 30
Written Exam	Written Exam	Written Exam
80 Marks 33 $\frac{1}{3}$ %	80 Marks 33 1 %	80 Marks 33 1 %

• Assessment structure is the same at both Higher and Foundation

FOUNDATION

Maths – Exam Preparation

8300/IF – Paper 1 Non Calculator

Topic	Detail	Corbett Maths Link		
Number				
Arithmetic	Four Operations	 https://corbettmaths.com/2013/12/19/addition-video-6/ https://corbettmaths.com/2013/12/19/subtraction-video-304/ https://corbettmaths.com/2013/02/15/multiplication-traditional/ https://corbettmaths.com/2013/12/28/division-video-98/ 		
	Negative Numbers	 https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/ https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/ https://corbettmaths.com/2012/08/20/dividing-involving-negatives/ https://corbettmaths.com/2013/06/06/ordering-numbers-including-negatives/ 		
I. P	Order of Operations	https://corbettmaths.com/2013/06/08/order-of- operations/		
Indices	Laws of Indices	 https://corbettmaths.com/2013/03/13/laws-of-indices- algebra/ 		
Fractions	Arithmetic	 https://corbettmaths.com/2012/08/21/fractions-addition- and-subtraction/ 		
	Fraction of a number	 Multiplying Fractions pdf (corbettmaths.com) https://corbettmaths.com/2012/08/20/fractions-of-amounts/ 		
	Conversions	 Percentages to Decimals (corbettmaths.com) Percentages to Fractions (corbettmaths.com) Decimals to Fractions pdf (corbettmaths.com) Decimals to Fractions pdf (corbettmaths.com) Decimals to Percentages worksheet (corbettmaths.com) Fractions to Percentages pdf (corbettmaths.com) Fractions to Decimals pdf (corbettmaths.com) 		
	Improper fractions	 Improper Fractions and Mixed Numbers (corbettmaths.com) 		
Types of Number	Multiples	Multiples Exercise 220 pdf (corbettmaths.com)		
Times	Dage in -	Algebra		
Types of Graph	Recognise	 https://corbettmaths.com/2016/08/07/cubic-graphs/ https://corbettmaths.com/2013/10/24/reciprocal-graphs/ 		
Reasoning	Formula	 https://corbettmaths.com/2012/08/20/substitution-into- expressions/ 		

Manipulation	Expand	Expanding Brackets (corbettmaths.com)	
	Brackets		
Formulae	Substitution	Substitution (corbettmaths	.com)
		Ratio	
Percentages	Increase	 Increasing/Decreasing by a Percentage Textbook Exercise – 	
		Corbettmaths	
	Sharing	Ratio sharing the total (cork	pettmaths.com)
Compound	Speed	Speed Distance Time (corbe	ettmaths.com)
Measures			
		Geometry and Measures	
Area and	Perimeter	https://corbettmaths.com/	2012/08/02/perimeter/
Volume	Area	Area of a Rectangle (corbet	tmaths.com)
		Area of Compound Shapes	(corbettmaths.com)
Angles	On a line	Angle Facts (corbettmaths.com)	
Measures Angles • Measuring angles Exercise 31 (corbettmaths.c		31 (corbettmaths.com)	
Lines • I		Measuring and Drawing Lines Practice Questions –	
		Corbettmaths	
		Statistics	
Averages prob	lem	https://corbettmaths.com/	2012/08/02/the-mean/
Pictogram		Pictograms pdf (corbettmat	:hs.com)
Bar Charts	Bar Charts • Reading Bar Charts (corbettmaths.com)		maths.com)
Scatter Graphs		Scatter Graphs (corbettmaths.com)	

FOUNDATION

Maths – Exam Preparation

8300/2F – Paper 2 Calculator

Topic	Detail	Corbett Maths Link			
	Number				
Properties	Number line decimal	Ordering Decimals Video – Corbettmaths			
	Number Problem	 Ordering Numbers Video – Corbettmaths 			
	Prime Number	Prime Numbers Video – Corbettmaths			
	Factors	Factors 216 pdf (corbettmaths.com)			
Fractions	Fraction of a	 Fractions of Amounts Video – Corbettmaths 			
	number				
Decimals	Error Intervals	 Error Intervals Textbook Exercise – Corbettmaths 			
Other	Time and Money	 Proportion Time Problems Video – Corbettmaths 			
		 Regular Payments Practice Questions – 			
		Corbettmaths			
	Algebra				
Manipulation	Equivalent	 https://corbettmaths.com/2013/03/12/forming- 			
	Expressions	algebraic-notation/			

	T				
	Factorise	•	https://corbettmaths.com/2013/02/06/factorisation/		
Inequalities	Solving	•	Solving Inequalities (corbettmaths.com)		
Sequences	Nth term	•	Sequences: nth term Textbook Exercise –		
			Corbettmaths		
			Ratio		
Percentages	Percentage scores	•	Expressing as a Percentage (corbettmaths.com)		
	Percentage	•	Ratio Simplifying Textbook Exercise – Corbettmaths		
	increase/decrease				
Ratio	As a fraction	•	Expressing a ratio as a fraction or percentage pdf		
			(corbettmaths.com)		
	Equivalent	•	Ratio Simplifying Textbook Exercise – Corbettmaths		
		eon	netry and Measures		
Area and	Compound shape	•	Area of Compound Shapes Video – Corbettmaths		
Volume					
Shape	Volume	•	Volume of a Prism (corbettmaths.com)		
	Congruency	•	Congruent Shapes Textbook (corbettmaths.com)		
	Similarity	•	Similar Shapes: Finding Sides Textbook Exercise –		
			Corbettmaths		
	Coordinates	•	Coordinates (corbettmaths.com)		
Angles	Polygons	•	Angles in polygons (corbettmaths.com)		
Tranformatio ns	Translation	•	Translations (corbettmaths.com)		
	Reflection	•	Reflections (corbettmaths.com)		
	Statistics				
Frequency Tree	Frequency Tree • Frequency Trees Textbook pdf (corbettmaths.com)		Frequency Trees Textbook pdf (corbettmaths.com)		
Probability					
Relative Freque	ency	•	https://corbettmaths.com/2013/06/20/relative-		
			frequency/		
Expected Value		•	Probability Videos – Corbettmaths		
Venn diagram		•	Venn Diagrams Video – Corbettmaths		
Sample space		•	Sample Spaces (corbettmaths.com)		

HIGHER

Maths – Exam Preparation

8300/1H – Paper 1 Non Calculator

Topic	Detail	Corbett Maths		
Number				
Arithmetic	Decimal	 Adding Decimals Video – Corbettmaths 		
Fractions	Arithmetic	Fractions: Addition and Subtraction Video –		
		Corbettmaths		
Decimals	Recurring Decimals	Recurring Decimals pdf (corbettmaths.com)		
Indices	Laws of indices	 Laws of Indices – Algebra Video – 		
		Corbettmaths		
Standard Form	Conversion	Standard Form Video – Corbettmaths		
	Calculation	Standard Form: Multiplication Video –		
		Corbettmaths		
		Algebra		
Equations	Simultaneous	Simultaneous Equations (corbettmaths.com)		
Functions	Substitution	Substitution (corbettmaths.com)		
Inequalities	Solving	Solving Inequalities (corbettmaths.com)		
Manipulation	Identity	Identities Video – Corbettmaths		
	Simplification of	Simplifying algebraic fractions Video –		
	algebraic fraction	Corbettmaths		
	Simplification	Forming Algebraic Expressions Video –		
		Corbettmaths		
	Expanding Brackets	Expanding Brackets (corbettmaths.com)		
	Completing the	Completing the square (corbettmaths.com)		
	square			
Graphs	Recognise	Cubic Graphs Video – Corbettmaths		
		Exponential Graphs Video – Corbettmaths		
		Reciprocal Graphs Video – Corbettmaths		
	Linear Graphs	Equation of a Line (corbettmaths.com)		
		Parallel and Perpendicular Graphs		
		(corbettmaths.com)		
		Ratio		
Ratio	Simplest form	 Simplifying Ratio Video – Corbettmaths 		
	Proportion problem	 Unitary Method Video – Corbettmaths 		
	Problems solving	 Ratio Solving Problems 1 (corbettmaths.com) 		
Compound	Average speed	 Speed Distance Time (corbettmaths.com) 		
measures				
		etry and Measures		
Shape	Congruence	 Congruent and Similar Shapes Video – 		
		Corbettmaths		
	Similarity	 Similar Shapes: Finding Sides Textbook Exercise 		
		Corbettmaths		

	Exact trig values	Exact Trigonometric Values Video – Corbettmaths
Area and Volume	Sphere	 Volume of a Sphere Exercise 361 (corbettmaths.com) Surface Area of a Sphere (corbettmaths.com)
	Cylinder	Surface Area of a Cylinder (corbettmaths.com)Volume of a Cylinder (corbettmaths.com)
	Circles	Circumference (corbettmaths.com)
Angles	Straight line	Angle Facts (corbettmaths.com)
Statistics		
Average problems • Averages and range (corbettmaths.com)		 Averages and range (corbettmaths.com)
Probability		
Venn Diagrams Video – Corbettmaths		Venn Diagrams Video – Corbettmaths

HIGHER

Maths – Exam Preparation

8300/2H – Paper 2 Calculator

Topic	Detail	Corbett Maths			
	Number				
Properties of	Triangular number	 Triangular Numbers Video – Corbettmaths 			
Number	Reciprocal	Reciprocals Video – Corbettmaths			
	Bounds	 Lower and Upper Bounds Video – 			
		Corbettmaths			
		 Limits of accuracy – problems Video – 			
		Corbettmaths			
Money	Problem solving	 Regular Payments Practice Questions – 			
		Corbettmaths			
		Algebra			
Manipulation	Multiply out	 Expanding Brackets Video – Corbettmaths 			
		 Expanding Two Brackets Video – Corbettmaths 			
		 Expanding Three Brackets Video – 			
		Corbettmaths			
		Surds – Expanding Brackets Video –			
		Corbettmaths			
	Identities	Equating Coefficients Practice Questions -			
		Corbettmaths			
	Algebraic Fractions	Simplifying Algebraic Fractions			
		(corbettmaths.com)			
	Rearrange formulae	Changing the Subject (corbettmaths.com)			
		Changing the Subject Advanced			
		(corbettmaths.com)			
Sequences	Quadratic	Quadratic nth Term (corbettmaths.com)			
	Iteration	Iteration (corbettmaths.com)			
Graphs	Coordinate problem	 Coordinates Video – Corbettmaths 			

	Gradients	•	Equation of a Line (corbettmaths.com)
	Turning point	•	Finding Turning Points Video – Corbettmaths
		•	Quadratic Graphs: Completing the Square
			Video – Corbettmaths
	Transformations	•	Transformations of Graphs (corbettmaths.com)
		R	Ratio
Ratio	1:n	•	Ratio Simplifying Textbook Exercise –
			Corbettmaths
Applications	Rate of output	•	Rates of Change Videos – Corbettmaths
and	Reverse Percentage	•	Reverse Percentages Textbook Exercise –
Percentages			Corbettmaths
	Compound interest	•	Compound Interest pdf (corbettmaths.com)
	Problem Solving	•	Ratio Solving Problems 1 (corbettmaths.com)
	Geom	etry	and Measures
Area and	Hemisphere	•	Volume of a Sphere Video – Corbettmaths
Volume		•	Surface area of a Sphere Video – Corbettmaths
Shape	Similarity	•	Similar Shapes: Finding Sides Textbook Exercise
			Corbettmaths
Angles	Polygons	•	Angles in polygons (corbettmaths.com)
	Angle facts	•	Angle Facts (corbettmaths.com)
Transformation	Translation	•	Translations (corbettmaths.com)
		Sta	tistics
Mean		•	The Mean Video – Corbettmaths
		•	Means from Frequency Tables Video –
			Corbettmaths
		•	Combined Mean Video – Corbettmaths
	Probability Probability		
Relative Frequen	су	•	Relative Frequency Video – Corbettmaths
Expected value		•	Probability Video – Corbettmaths
Notation		•	Probability Video – Corbettmaths
Sample space		•	Sample Spaces (corbettmaths.com)
Problems		•	Independent Events (corbettmaths.com)