

A guide to revising Mathematics (Foundation)

This is a step by step guide of how to revise for your Mathematics GCSE examination

- Use a spare writing book or ring binder to keep all your revision notes and working.
- Choose a topic to revise from the list on the next page. Remember to choose those topics you are **not** confident with.
- Use the mathswatch clip and/or a revision guide to work through the topic, **making notes in your writing book and highlighting key formula**. Use a mind map if you prefer.
- Practise the questions provided on maths watch, or there are loads of practice questions, by topic, available on **corbettmaths.com**
- Go to the shared google document and go into the file 'foundation revision pack'. Choose the test on the topic you have just revised (the revision list tells you the name of the file). Work through the questions and check your answers from the mark scheme provided. **It is important to find out where you have gone wrong if you don't get the correct answer.**
- Tick the box on your revision list to say you have revised and practised the topic.
- More questions are available in the shared document for extra practise. Paper copies are available from your maths teacher.
- Repeat this process, for the topics you are not confident with, at least twice.
- Finally, work through the AQA topic tests and past papers that are on the shared google document.

The login for maths watch is

www.vle.mathswatch.com

The login details are

User : **student email address** (eg. *tsmith@wellacre*)

Password : **wellacre**

Foundation Mathematics Revision List

Topic	Mathswatch clip number	Basic Skills	Foundation Revision pack practice questions (available in shared google document)
NUMBER			
Four Operations + - x ÷	17, 18, 19, 20, 21, 22		Number/number problem solving
Negative numbers	23, 68		
Rounding	31, 32, 90, 91		
BIDMAS	75		
Ordering and calculating with decimals	66, 67		
Primes Factors Multiples	28		Multiples factors primes
HCF LCM Prime Factors	78, 79, 80		Multiples factors primes

Fractions + - x ÷	24, 25, 26, 27, 70, 71, 73, 74		Fractions
Fraction of amount/express as a fraction	72		Fractions
Converting between Fractions Decimals and Percentages	84, 85		
Percentage of a Quantity	40, 86, 87		Percentages
Express as a percentage	88, 89		Percentages
Percentage Change	109		Percentages
Increase/Decrease by a %	108, 111		Percentages

Repeated % Change	164		Percentages
Reverse %	110		Percentages
Ratio and Proportion	38, 39, 42, 106		Ratio
Best Buys	41		Ratio
Powers Roots and Indices	81, 82, 131		
Standard Form	83		Standard Form

Real Life Tables	6		
ALGEBRA		Basic skills	Exam Questions
Co-ordinates	8, 113		
Expanding and Simplifying	33, 34, 35, 93, 134,		Expanding, simplifying and factorising
Factorising	94		Expanding, simplifying and factorising
Forming Formulae and Equations	137		
Linear Equations	135		Linear Equations

Binomial Expansion	178		
Quadratic Factorisation	157		Quadratic Equations
Changing Subject of a formula	101, 136		
Function machines and substitution	36, 95		
Number Patterns and Sequences	37, 102 103, 104,		Number and sequences

Linear Graphs	96, 97		Linear graphs
Quadratic graphs	98		
Distance Time Graph	143		Real life graphs
Inequalities	138, 139		
Quadratic Equations	157		Quadratic Equations

Simultaneous Equations	140, 162		Simultaneous equations
GEOMETRY		Basic Skills	Exam Questions
Properties of Shapes	9, 10,		
Symmetry and tessellations	11, 12		
Circles	116, 117, 118, 167		

Angles	13, 45, 46, 120, 121, 122, 123		Angles Bearings
Transformations	48, 49, 50, 148		Transformations
Constructions and Loci	47, 145, 146, 147, 165		
Nets plans Elevations	44, 51		

Metric conversions	112		
Area and Perimeter	52, 53, 54, 55, 56		Area and Volume
Properties of Solids	43,		
Volume and Surface Area	114, 115, 119, 169		Area and volume
Congruence and Similar Shapes	144, 166		Congruence and similarity

Pythagoras	150		Pythagoras and trigonometry
Trigonometry	168, 173		Pythagoras and trigonometry
Vectors	174		Vectors
STATISTICS		Basic Skills	Exam Questions
Probability	14, 57, 58, 59, 60, 61, 125, 126, 151		Probability
Data Collection and Sampling	63, 152		Representing data

Scatter Graphs	129		Averages scatter diagrams pie cumulative frequency
Statistical Diagrams	15, 16, 64, 65, 128		Averages scatter diagrams pie cumulative frequency
Venn Diagrams	127		
Averages and Spread	62, 130		Averages scatter diagrams pie cumulative frequency