

**Revision List to cover both papers. Two 90-minute papers.****Paper 1 is the Non-Calculator Paper. Paper 2 is the Calculator Paper**

- Adding & subtracting decimals, integers
- Angles in polygons
- Angles on a line and about a point
- Area of compound shapes
- Calculate experimental probabilities
- Calculating the mean
- Calculating with roots and powers
- Calculating with speed
- Choosing suitable averages and solving problems
- Constructing and solving equations
- Constructing fractions
- Converting between fractions, decimals and percentages
- Converting between mixed numbers and improper fractions
- Converting between ratios, fractions and percentages
- Converting units of length, mass and capacity
- Dividing with mixed numbers
- Drawing and interpreting pictograms
- Drawing bar charts
- Expanding single brackets
- Expected results from repeated experiments
- Factorising into one bracket
- Finding areas using grids
- Finding factors and using divisibility tests
- Finding fractions of amounts
- Finding percentages of amounts with a calculator
- Finding perimeters using grids
- Finding prime numbers
- Finding the lowest common multiple (LCM)
- Finding the percentage an amount has been changed by
- Frequency trees
- Graphs of reciprocal functions
- Interpreting scatter graphs, including lines of best fit
- Mixed problems: Finding the area and perimeter of simple shapes
- Multiplying and dividing with integers including negative numbers
- Ordering negative numbers
- Percentage change with a calculator
- Position-to-term rules for arithmetic sequences (also known as finding nth term)
- Prime factor decomposition
- Rates of change
- Reading and drawing inequalities on number lines
- Reading and plotting coordinates
- Reading, converting and calculating with time
- Sample space diagrams
- Share amounts in a given ratio
- Simplifying expressions by collecting like terms
- Simplifying fractions
- Solving direct proportion word problems
- Solving equations with two or more steps
- Solving shape problems involving coordinates
- Substituting into algebraic formulae
- Transformations
- Understanding and ordering integers
- Understanding congruence and similarity
- Understanding, measuring and drawing angles
- Using a written method to divide integers and decimals
- Using a written method to multiply integers
- Using algebraic notation
- Using equivalent ratios to find unknown amounts
- Using number lines
- Using the correct order of operations
- Venn diagrams
- Volume of spheres
- Write numbers as percentages of other numbers
- Writing and simplifying ratios

## Useful revision resources

### Websites

- Sparx Maths Independent Learning – <https://www.sparxmaths.uk>
- Corbett Maths – <https://corbettmaths.com/>
- GCSEPod - <https://www.gcsepod.com/>
- Seneca Learning - <https://senecalearning.com/en-GB/>
- BBC Bitesize Learning - <https://www.bbc.co.uk/bitesize/examspecs/z8sg6fr>
- Oak National Academy - <https://classroom.thenational.academy/subjects-by-key-stage/key-stage-4/subjects/math>
- Third Space Learning - <https://thirdspacelearning.com/secondary-resources/>

### Recommended Revision Guides

- Collins GCSE AQA revision guides and Corbett Maths revision cards – Available on Wisepay

### Recommended Calculators

Casio fx-83 CW, fx-85 CW, Casio Classwiz EX-991 CW (recommended if continuing onto A-Level Mathematics) – underlined models available on Wisepay

### Maths Sets

We have a Maths Sets available on Wisepay and are priced at £2, these come in an exam-friendly transparent pencil case

### Revision Tips

Revision for Mathematics is based upon practice (and more practice). You need to be confident at the skills and concepts that make up the course in order to be able to work through the more challenging problems. Revision should be interactive, not just reading notes

Students can work through the Independent Study Sections on Sparx Maths and use the revision list to identify areas that they are good at, alongside areas they are struggling with and need to work on

A potential plan of action would be

- Work through the list given using Sparx (remember that they have a video with each question)
- Work through maths problems and past papers.
- Do not just read your notes/revision guides as you need to practice your Maths skills.