

Subject	Mathematics
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Exam Board	AQA	Course Code	8300
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June Assessment

Two 90-minute papers – Paper 1 is Non-Calculator and Paper 2 is Calculator

Full mathematics equipment will be required for both assessments

Topics to be covered

Foundation	Higher
<input type="checkbox"/> Add, subtract, multiply and divide integers and decimals <input type="checkbox"/> Angles <input type="checkbox"/> Area of 2D shapes including a circle <input type="checkbox"/> Average, pictograms, bar charts, scatter graphs, pie charts, two-way table <input type="checkbox"/> Bidmas <input type="checkbox"/> Collecting like terms, expanding, factorise <input type="checkbox"/> Compound measures <input type="checkbox"/> Converting between units <input type="checkbox"/> Distance-Time Graphs <input type="checkbox"/> Error interval <input type="checkbox"/> Equations of lines ($y = mx + c$ and properties such as parallel lines) <input type="checkbox"/> Fractions – add, subtract, multiply, divide, amounts, ordering <input type="checkbox"/> FDP <input type="checkbox"/> Frequency trees <input type="checkbox"/> Indices <input type="checkbox"/> Parts of a circle <input type="checkbox"/> Percentages <input type="checkbox"/> Perimeter <input type="checkbox"/> Polygons- interior and exterior <input type="checkbox"/> Probability <input type="checkbox"/> Product of primes, factors, multiples, LCM, HCF <input type="checkbox"/> Pythagoras <input type="checkbox"/> Quadratic graph <input type="checkbox"/> Ratio <input type="checkbox"/> Rearrange formula, substituting (into expressions and formula) <input type="checkbox"/> Rounding and estimating <input type="checkbox"/> Simultaneous equations <input type="checkbox"/> Solving equations <input type="checkbox"/> Square and cube numbers <input type="checkbox"/> Standard form <input type="checkbox"/> Substitution <input type="checkbox"/> Temperature <input type="checkbox"/> Trigonometry length/ angles	<input type="checkbox"/> Angles in parallel lines <input type="checkbox"/> Area of 2D shape <input type="checkbox"/> Bearings <input type="checkbox"/> Best buy <input type="checkbox"/> Circle theorems <input type="checkbox"/> Compound measures <input type="checkbox"/> Congruent <input type="checkbox"/> Converting units <input type="checkbox"/> Cumulative frequency graphs <input type="checkbox"/> Direct and inverse proportion <input type="checkbox"/> Distance-Time Graphs <input type="checkbox"/> Equations of a line, including midpoint <input type="checkbox"/> Equation of a circle, tangent <input type="checkbox"/> Error intervals <input type="checkbox"/> Expanding quadratics <input type="checkbox"/> Histograms, box plots, Venn diagrams and unions <input type="checkbox"/> Indices, negative and fractional <input type="checkbox"/> Inequalities <input type="checkbox"/> Mean (discrete data) and from a table – include estimate, <input type="checkbox"/> Percentages <input type="checkbox"/> Pie chart <input type="checkbox"/> Probability tree <input type="checkbox"/> Product of Prime Factors <input type="checkbox"/> Pythagoras, trigonometry lengths/ angles and further trigonometry <input type="checkbox"/> Quadratic graph <input type="checkbox"/> Ratio - all aspects <input type="checkbox"/> Recurring decimals <input type="checkbox"/> Sequences, include quadratic, geometric <input type="checkbox"/> Similar triangles <input type="checkbox"/> Simultaneous equations <input type="checkbox"/> Standard form <input type="checkbox"/> Solving quadratic equations by all methods <input type="checkbox"/> Transformations <input type="checkbox"/> Velocity time graph <input type="checkbox"/> Volume of a cone

Useful revision resources

Websites

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

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/maths>

Recommended Revision Guides

Collins GCSE AQA revision guides - £4.50 from your mathematics teacher

Corbett Maths revision cards - £6.50 from your mathematics teacher

Recommended Calculators

Casio fx-83 GTX, fx-85 GTX, Casio Classwiz EX-991 (recommended if continuing onto A-Level Mathematics)

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 Mathswatch 6 week plan (available from the Mathswatch Website under Extras > GCSE) or identify key topic areas via the Mathswatch list below. On the 6 week plan, students can split it up according to the two assessment periods)

A potential plan of action would be

- Work through the plans below watching the relevant videos (try the one minute videos first and if you do not understand then watch the longer videos)
- Attempting the interactive questions if needed
- Work through maths problems and past papers.
- Do not just read your notes/revision guides as you need to practice your Maths skills.

Any additional information will be placed into Google Classrooms and the GSHS Maths Revision Area

<http://bit.ly/GSHSMathsRevision>