

GCSE Mathematics Exam Information and Subject Updates 2021-22

Key Exam Information

Subject:	Mathematics
Exam board:	OCR
Adaptations for 2022 exams:	<p>Access to a formulae sheet in the exam room</p> <p>Advance notice of topics covered on each paper (see link)</p> <p>https://www.ocr.org.uk/images/J560%20GCSE%20Mathematics%20Advance%20Information_Jun2022.pdf</p>
Summer exam dates:	<p>Paper 1: Calculator, 20th May 2022, 1h 30m</p> <p>Paper 2: Non-calculator; 7th June 2022, 1h 30m</p> <p>Paper 3: Calculator, 13th June 2022, 1 1h 30m</p> <p>All equally weighted at 33.3%, and any content can be expected on any paper – though there is some exclusive to the non-calculator paper such that certain skills can be tested.</p>
Other examined component details (dates/deadlines, weighting):	N/A

March Mock Exam

Date:	<p>7th - 10th March</p> <p>There will be 2 exams</p> <p>Paper 1 - Calculator</p> <p>Paper 2 - Non Calculator</p>
Content to be examined:	See detailed information at bottom of page.

Exam Preparation

Exam preparation tips:	<p>Have all the correct equipment i.e Casio Scientific Calculator and full Geometry set *Know how to use them *</p> <p>Revise thoroughly ensuring you attempt plenty of past paper questions.</p> <p>Always seek help from your class teacher if unsure.</p> <p>It's never too early to start revising !</p>
Links to subject pages on the exam board website	http://www.ocr.org.uk/qualifications/gcse-mathematics-j560-from-2015/

Revision websites:	www.corbettmaths.com www.gcsepod.com www.mrbartonmaths.com www.justmaths.co.uk www.youtube.com www.mathspad.co.uk
Revision sessions:	Pupils should speak to their subject teacher
Links to other resources:	https://ocr.org.uk/Images/168982-specification-gcse-mathematics.pdf
Revision guides:	£4 for an all-in-one revision and practice book.

March Mock Content Lists

Paper 1 - Calculator Paper

Foundation Tier	Higher Tier
<ul style="list-style-type: none"> • Algebraic multiplication • Area of compound shapes • Averages (mean, mode, median) and range • Compound interest • Conversion graphs • Coordinates • Fractions of amounts • Inverse operations • Linear sequences • LCM, HCF • Measurements and angles • Naming graphs • Ordering decimals • Probability of independent events • Probability of combined events • Probability trees • Properties of quadrilaterals • Reverse percentages • Rounding • Similar shapes • SOH CAH TOA • Solving linear equations • Speed/distance/time • Types of numbers • Wordy simultaneous equations 	<ul style="list-style-type: none"> • Calculations with powers and roots • Area of trapezium • Laws of Indices • Probability & Tree Diagrams • HCF & LCM • Best Buys (Value for money) • Conditional Probability • Compound Interest • Reverse percentages • Ratio & Proportion • Angles & Parallel Lines • Similarity and Congruence • Inequalities & Shaded Regions • Histograms • Completing the Square & minimum turning points • Quadratic Sequences • Exponential Growth & Decay • Sine & Cosine rule (non-right-angled triangles) • Identifying Quadratic, Cubic, Reciprocal & Trig Graphs • Graph Transformations • Trig Problem Solving (non-right-angled triangles)

Continued...

Paper 2 Non- Calculator Paper

Foundation Tier	Higher Tier
<ul style="list-style-type: none"> • Angles on parallel lines (set up and solve equation) • BIDMAS • Compound percentages • Decimal multiplication • Estimation (Force/pressure/area) • Fraction arithmetic • Fractions/decimals/percentages • Function machines • Inequality symbols • Money calculations • Negative number calculations • Negative indices • Plot quadratic graph • Properties of shapes • Proportion graphs • Ratio/proportion (recipe problem) • Sample space diagram (list all outcomes) • Sampling/bias • Scatter diagrams • Similar shapes • Solve equation graphically • Solve inequality • Unit conversions/calculations • Volume of 3D shape 	<ul style="list-style-type: none"> • Fraction arithmetic • Prime Factors • Proportional reasoning & Percentages • Scatter Diagrams & Correlation • Interpolation & Extrapolation • Volume of Prisms • Direct & Inverse Proportion Graphs • Solve Linear Inequality • Inequalities on number lines • Plotting graphs of reciprocal functions • Repeated percentage Change • Pressure, Force & Area Calculations • Calculations with right angled triangles • Box Plots • Recurring decimals as fractions • Similar shapes (Volume & Area) • Surd Simplification • Venn Diagrams & Probability • Simplifying Algebraic Fractions • Circle Theorems Problem Solving • Equation of a circle • Rearranging equations • Sector Areas • Algebraic Proof