GCSE (9-1) MATHEMATICS

BRINGING MATHEMATICS TO LIFE

AT A GLANCE

Our GCSE (9-1) Mathematics qualification provides your students with every opportunity to engage with, explore and enjoy maths.

Developed in consultation with teachers, employers and higher education, our specification encourages students to develop confidence in, and a positive attitude towards, mathematics.

	GCSE (9–1) content areas	Subject content
1	Number Operations and Integers	Calculations with integers; Whole number theory; Combining arithmetic operations; Inverse operations
2	Fractions, Decimals and Percentages	Fractions; Decimal fractions; Percentages; Ordering fractions, decimals and percentages
3	Indices and Surds	Powers and roots; Standard form; Exact calculations
4	Approximation and Estimation	Rounding; Estimation; Upper and lower bounds
5	Ratio, Proportion and Rates Of Change	Calculations with ratio; Direct and inverse proportion; Discrete growth and decay
6	Algebra	Algebraic expressions; Algebraic formulae; Algebraic equations; Algebraic inequalities; Language of functions; Sequences
7	Graphs of Equations and Functions	Graphs of equations and functions; Straight line graphs; Transformations of curves and their equations; Interpreting graphs
8	Basic Geometry	Conventions, notation and terms; Ruler and compass constructions; Angles; Properties of polygons; Circles; Three-dimensional shapes
9	Congruence and Similarity	Plane isometric transformations; Congruence; Plane vector geometry; Similarity
10	Mensuration	Units and measurement; Perimeter calculations; Area calculations; Volume and surface area calculations; Triangle mensuration
11	Probability	Basic probability and experiments; Combined events and probability diagrams
12	Statistics	Sampling; Interpreting and representing data; Analysing data

ASSESSMENT MODEL

	Paper 1		Paper 2		Paper 3	
Foundation tier	1 ½ hours Grades 1-5 100 marks	Calculator ✅	1 ½ hours Grades 1-5 100 marks	Non-calculator ❌	1 ½ hours Grades 1-5 100 marks	Calculator ✅
	Paper 4		**Paper 5**		**Paper 6**	
Higher tier	1 ½ hours Grades 4-9 100 marks	Calculator ✅	1 ½ hours Grades 4-9 100 marks	Non-calculator ❌	1 ½ hours Grades 4-9 100 marks	Calculator ✅

Our new OCR GCSE (9-1) Mathematics qualification offers:

- **Simple assessment model** – 3 x 90-minute papers for each tier.

- **Equal** subject content and Assessment Objective weightings across papers at each tier.

- **100 marks per paper**, giving us a greater scope for awarding more method marks within questions. This means candidates can be better rewarded for each correct step on the way towards an answer.

- **Mathematical formulae provided** directly in each question when relevant, rather than on a formulae sheet at the front of the paper where candidates would then have to identify and choose the correct formula from.

- Specification clearly laid out in a **unique three-column grid structure**, including examples.

- A column of required content suitable for '**initial learning**' is set out in the specification, **ensuring** that the basics can be established with learners before moving on to more difficult areas.

Support you can count on

We're committed to supporting teachers as you deliver our mathematics qualifications.

From free teaching and learning resources, sample assessment materials, practical activities, CPD training, Teacher Networks, subject guidance and publisher partnerships, we're here to provide you with support you can count on.

- Download the Specification, Practice Papers, teaching and learning resources
  ocr.org.uk/gcsemaths

- Sign up to CPD training and Teacher Networks
  ocr.org.uk/gcsemathscpd

- Join the community
  social.ocr.org.uk/groups/maths

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