Year 10

GCSE Mathematics & Numeracy (Double Award)

Higher Tier

Parental Booklet

2026-2027

Key Dates:

The dates below outline when pupils will be sitting mock exam papers and the real examinations. Pupils will sit their mock exams (as well as the real exams) under exam conditions. The purpose of the mock exams is to give an indication as to what Grade pupils are currently working at. Following the mock exams, pupils will also receive feedback on which topics are their strengths and areas for development.

Date	**Assessment**
Wednesday 9th September 2026	Baseline Mock Exam – Unit 2 (Non-calculator)
Wednesday 7th October 2026	Mock Exam – Unit 2 (Non-calculator)
Wednesday 9th December 2026	Mock Exam – Unit 2 (Non-calculator)
Wednesday 24th February 2027	Mock Exam – Unit 2 (Non-calculator)
Wednesday 21st April 2027	Mock Exam – Unit 2 (Non-calculator)
Thursday 27th May 2027	**Final Exam** - Unit 2 (Non-calculator)
TBC – June 2027	Baseline Mock Exam – Unit 1 (Calculator)

Key Information:

- GCSE Higher Tier Mathematics and Numeracy is a Double Award qualification which consists of three papers: Unit 1 (30%), Unit 2 (30%) and Unit 3 (40%).

- The **Unit 1** exam is a calculator exam with a focus on 'Financial Mathematics and Other Applications of Numeracy'. This lasts 1 hour 45 minutes.
- The **Unit 2** exam is a non-calculator exam. This lasts 1 hour 45 minutes.
- The **Unit 3** exam is a calculator exam. This lasts 2 hours.

- Pupils will sit the three exams in the following order:
  -Unit 2: Year 10 – Summer Exam Series [May 2027]
  -Unit 1: Year 11 – Autumn Exam Series [November 2027]
  -Unit 3: Year 11 – Summer Exam Series [June 2028]

Grades:

- Pupils can achieve any grade from Grade D to Grade A* through the Higher Tier paper.
- Pupils may be entered at different tiers across units.

Homework

Year 10 pupils will be set online homework once per week (every **Friday [10ab]** or **Tuesday [10cd]**) on **MathsWatch**.

This homework is compulsory and allows pupils to develop their understanding of a range of numeracy topics. Please encourage pupils to achieve the highest percentage possible as this shows whether they are secure in those skills.

Pupils can access the website via google login by using their school emails.

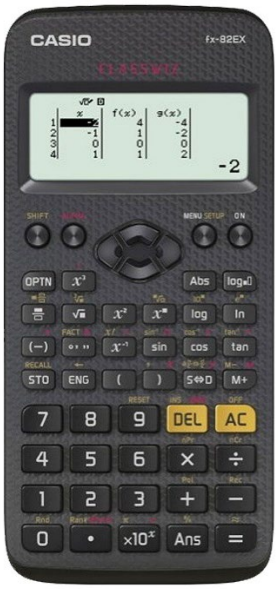
Equipment:

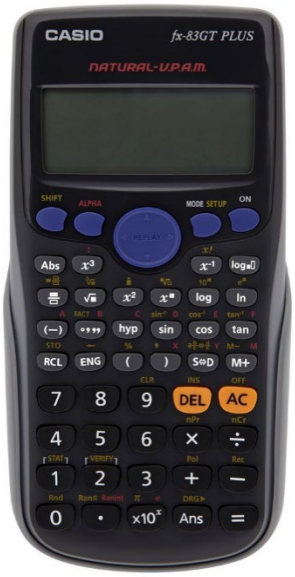
Please ensure pupils come to Maths lessons and attend Maths exams with the following equipment:

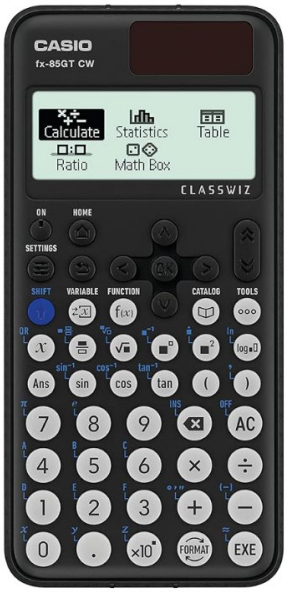
- Pen, pencil
- Rubber
- Ruler
- Compass and protractor (Geometry set)
- Scientific Calculator

The unit 2 exam is non-calculator only. From the 1st December, we will be looking at some calculator topics, to start preparing for the exams in year 11. **Your child will therefore need a scientific calculator ready for the 1st December.** If you have any financial concerns about this, please let your child's Head of Year/Maths teacher know.

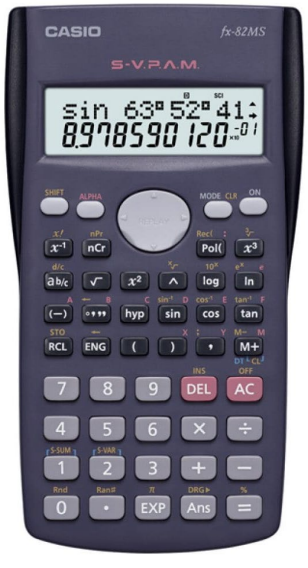
Below are some examples of suitable Scientific Calculators:

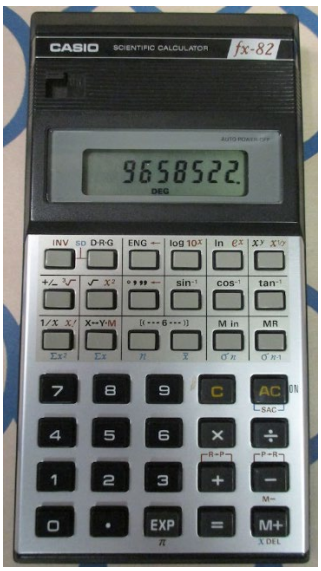


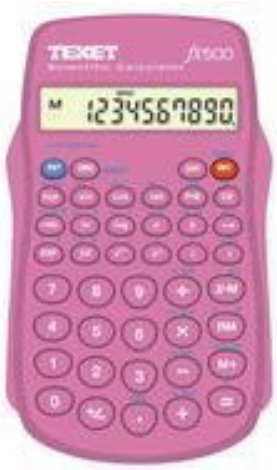




Here are some examples of calculators that are **<u>not suitable</u>** as they are missing some functions:







Key Topics to Revise for Higher Tier Mathematics – Unit 2

(and MathsWatch Clip Numbers - you must select GCSE (Double Award) as the qualification)

Number

- Reading and writing numbers [Clips: 1]
- Rounding [Clips: 3,29,49a, 49b, 49d]
- Negative numbers [Clips: 20, 57a, 57b]
- Estimating [Clips: 49c]
- Factors, Multiples and Primes [Clips: 13]
- Squares, Cubes and Roots [Clips: 50]
- Reciprocal [Clips: 97]
- Indices [Clips: 31, 51]
- Product of prime factors [Clips: 52]
- Highest Common Factor (HCF) and Lowest Common Multiple (LCM) [Clips: 98a, 98b]
- Zero, Negative and Fractional Indices [Clips: 141, 167]
- Standard Form [Clips: 142]
- Equivalent fractions [Clips: 32a]
- Fraction, Decimal, Percentage Equivalence [Clips: 54]
- Simplify fractions [Clips: 32a]
- Express as a fraction or percentage [Clips: 56a, 56b]
- Fraction of an amount [Clips: 58b]
- Percentage of an amount [Clips: 71, 130]
- Add and subtract whole numbers, decimals, fractions and negative numbers [Clips: 17a, 17b, 57a, 58a]
- Multiply and divide whole numbers, decimals, fractions and negative numbers [Clips: 18a, 34a, 57b, 58c]
- Order of operations [Clips: 135]
- Function machines [Clip: 36]
- Venn Diagrams [Clip: 135, 166]
- Money calculations [Clips: 62a]
- Recurring decimals as fractions [Clips: 106, 146b]
- Rational and Irrational numbers [Clips: 146a]
- Surds [Clips: 170a, 170b, 170c]

Algebra

- Conventions of algebra [Clips: 22]
- Substitution [Clips: 66]
- Distinguishing between expressions, equations, formulae and identities [Clips: 147]
- Simplifying expressions [Clips: 37, 63a, 63b]
- Adding, subtracting and simplifying algebraic fractions with constant terms in the denominator
- Simplifying more complex algebraic fractions and solving equations with these [Clips: 176a, 176b]
- Expanding single brackets [Clips: 17a, 64]
- Expanding double brackets [Clips: 107b]
- Factorising into single brackets [Clips: 65]
- Difference of two squares [Clips: 152b]

- Factorising quadratic expressions into double brackets [Clips: 152a, 174]
- Changing the subject of a formula (subject appears in one term) [Clips: 68a, 86b]
- Changing the subject of a formula (subject appears in more than one term) [Clips: 172]
- Forming and solving linear equations [Clips: 110]
- Forming and solving linear inequalities [Clips: 1112, 151]
- Forming and solving quadratic equations [Clips: 175]
- Form and solve simultaneous equations [Clips: 118, 148, 178]
- Sequences - Describe the rule and find the next term [Clips:38, 69a, 115a, 115b]
- Generating a sequence [Clips: 69a]
- Find the nth term (linear sequence) [Clips: 69b]
- Find the nth term (quadratic sequence) [Clips: 114, 177]
- Coordinates [Clips: 23]
- Draw, recognise and sketch straight lines in the form x = a, y = b or y = mx + c [Clips: 149a, 149b, 149c]
- Know and use the equation of a straight line y = mx + c [Clips: 70,116a, 116b, 149a]
- Draw, recognise, interpret and sketch quadratic graphs [Clips: 117]
- Draw, recognise, interpret and sketch cubic and reciprocal graphs [Clips: 155a]
- Draw and interpret graphs where y is given implicitly in terms of x
- Shading regions [Clips: 150b]

Geometry and Measure

- Geometric Definitions [Clips: 24]
- Names and properties of 2D & 3D shapes [Clips:25, 76b]
- Basic Angle facts [Clips: 74]
- Angles in parallel lines [Clips: 75]
- Angles in triangles and quadrilaterals [Clips: 76a, 77]
- Angles in polygons [Clips: 125]
- Circle Theorems & Geometric Proofs [Clips: 160]
- Transformations - Reflection, Rotation, Translation & Enlargement [Clips: 85, 86, 87, 88, 161a, 162]
- Metric Unit Conversions [Clips: 78a]
- Time [Clips: 21a6
- Line Symmetry & Rotational Symmetry [Clips: 26]
- Midpoint of a line [Clips: 84]

Probability

- Probability Scale [Clips: 12]
- Calculating Probabilities [Clips: 45]
- Mutually Exclusive Events [Clips: 95]
- Experimental Probability/Relative Frequency [Clips: 94]
- Estimating using probability
- And or Probability questions [Clips: 189]
- Probability of multiple events, including the use of Sample Space diagrams, Venn diagrams and tree diagrams [Clips: 140, 165, 166, 189]

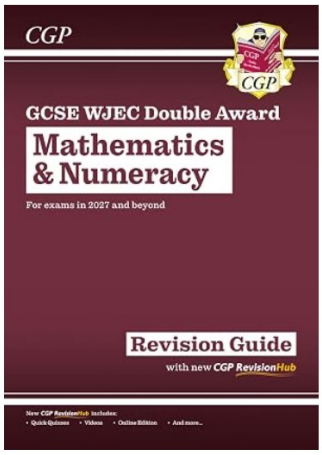
Please note: These are not the only topics which could appear in the GCSE Mathematics exams. These lists have been created to help pupils focus their revision: they should still be revising the other topics we have covered in class also however.

Helping your child to revise

There are a range of different websites which pupils can use to revise for their GCSE Mathematics exams. Here is a list of some we suggest:

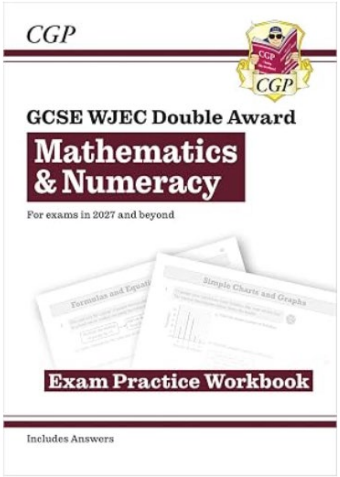
MathsDIY This website provides access to past paper questions, solutions and mark schemes. You will also find past paper questions which are grouped by topic.	**Mathswatch** Provides pupils with videos and accompanying practice questions on a range of different topics. Students can find their username and password in their school emails.
CorbettMaths Videos and worksheets on every topic in Mathematics.	**BBC Bitesize** Information sheets with accompanying quizzes to test pupils' understanding on a range of different topics.

Unfortunately, a Unit 2 specific Maths textbook does not currently exist. The textbooks below however provide support for pupils to learn topics across all three unit exams.



Website Link: New GCSE WJEC Mathematics & Numeracy Double Award Revision Guide (For exams from 2027): Amazon.co.uk: CGP Books, CGP Books: 9781837742479: Books

Website Link: New GCSE WJEC Mathematics & Numeracy Double Award Exam Practice Workbook (For exams from 2027): Amazon.co.uk: CGP Books, CGP Books: 9781837742486: Books



The textbook 'Your Money Matters' by Martin Lewis is also highly recommended to support pupils in preparing for the **Unit 1** exam that they will sit at the start of Year 11.

You can download the pdf version for free here: https://www.young-enterprise.org.uk/resources/your-money-matters-financial-education-textbook-wales/