



Year 11

**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
Tuesday 8 th September 2026	Mock Exam - Unit 1 (Calculator)
Tuesday 3 rd November 2026	Final Exam - Unit 1 (Calculator)
Monday 30 th November 2026	Mock Exam - Unit 3 (Calculator)
Monday 11 th January 2027	Mock Exam - Unit 3 (Calculator)
Monday 12 th April 2027	Mock Exam - Unit 3 (Calculator)
Monday 14 th June 2027	Final Exam - Unit 3 (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 2026]
 - Unit 1: Year 11 - Autumn Exam Series [November 2026]
 - Unit 3: Year 11 - Summer Exam Series [June 2027]

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 11 pupils will be set online homework once per week (every **Thursday**) 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:

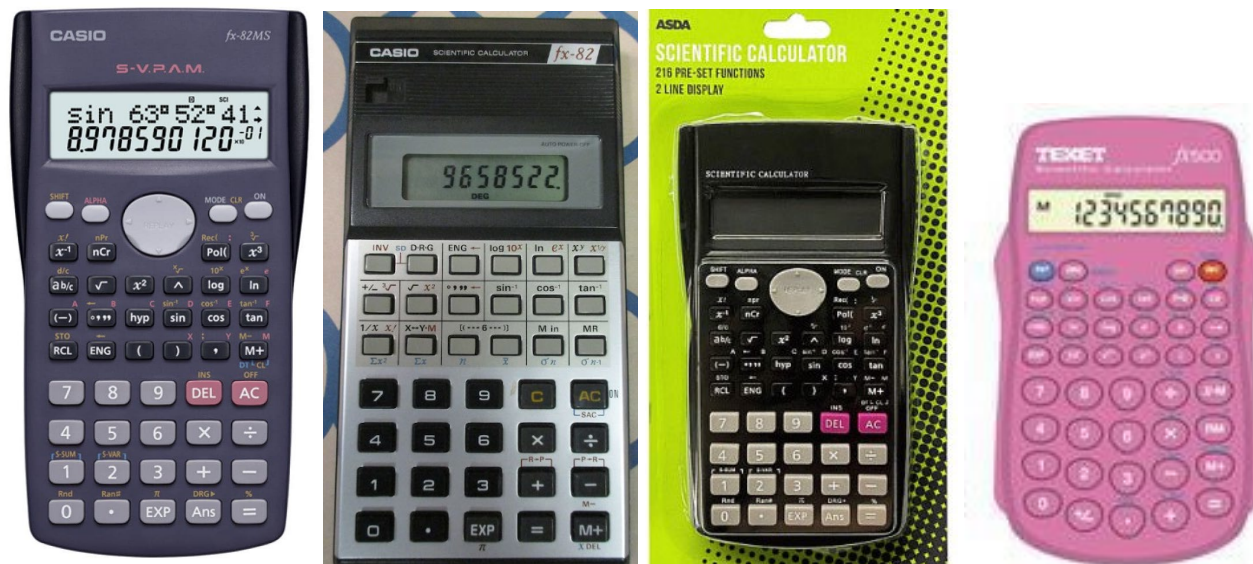
- Pen, pencil
- Rubber
- Ruler
- Compass and protractor (Geometry set)
- Scientific Calculator

Both exams that pupils will sit in Year 11 (Unit 1 & Unit 3) require a calculator. **Your child will therefore need to bring a scientific calculator with them to every Maths lesson.** 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 not suitable as they are missing some functions:





Key Topics to Revise for Higher Tier Mathematics - Unit 1

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

Number and Place Value (Foundation & Higher)

- Read and write whole numbers [Clips: 2] - [Corbett Maths Resource](#)
- Round whole numbers [Clips: 3] - [Corbett Maths Resource](#)
- Place Value [Clips: 2, 49d] - [Corbett Maths Resource](#)
- Round to nearest whole number [Clips: 29] - [Corbett Maths Resource](#)
- Decimal places [Clips: 29] - [Corbett Maths Resource](#)
- Significant Figures [Clips: 49a] - [Corbett Maths Resource](#)
- Directed Numbers [Clips: 4, 20] - [Corbett Maths Resource](#)
- Odd and Even Numbers [Clips: 1] - [Corbett Maths Resource](#)
- Factors, Multiples and Primes [Clips: 13] - [Corbett Maths Resource](#)
- Square Numbers and Roots [Clips: 50] - [Corbett Maths Resource](#)
- Cube Numbers and Roots [Clips: 50] - [Corbett Maths Resource](#)
- Positive Indices [Clips: 31] - [Corbett Maths Resource](#)

Fractions, Decimals, Percentages and Ratio (Foundation & Higher)

- Equivalent Fractions [Clips: 32a] - [Corbett Maths Resource](#)
- Simplifying Fractions [Clips: 32b, 32c] - [Corbett Maths Resource](#)
- Fractions of Amounts [Clips: 58b] - [Corbett Maths Resource](#)
- FDP Conversions [Clips: 54] - [Corbett Maths Resource](#)
- Percentages of Amounts [Clips: 55a, 104] - [Corbett Maths Resource](#)
- Percentage Change [Clips: 103, 104] - [Corbett Maths Resource](#)
- Multipliers [Clips: 55a, 104] - [Corbett Maths Resource](#)
- Repeated Percentage Change [Clips: 105b] - [MME Revise Resource](#)
- Ratio Problems [Clips: 60a, 60b, 100] - [Corbett Maths Resource](#)

Calculation Skills (Foundation & Higher)

- Addition [Clips: 17a] - [Corbett Maths Resource](#)
- Subtraction [Clips: 17b] - [Corbett Maths Resource](#)
- Multiplication [Clips: 18a, 19] - [Corbett Maths Resource](#)
- Division [Clips: 18b, 19] - [Corbett Maths Resource](#)
- Decimal Calculations [Clips: 17a, 17b, 34a, 34b] - [Corbett Maths Resource](#)
- Fraction Calculations [Clips: 58a, 58c, 58d] - [Corbett Maths Resource](#)
- Negative Numbers [Clips: 57a, 57b] - [Corbett Maths Resource](#)
- Calculator Use [Clips: 59] - [Corbett Maths Resource](#)
- Order of Operations [Clips: 35] - [Corbett Maths Resource](#)



Financial Mathematics (Foundation & Higher)

- Money [Clips: 62b] - [Corbett Maths Resource](#)
- Wages [Clips: 62b] - [Corbett Maths Resource](#)
- Income Tax - [Corbett Maths Resource](#)
- Savings and Investments [Clips: 62b] - [WJEC Resource](#)
- Loans and Repayments - [Corbett Maths Resource](#)
- Mortgages - [BBC Bitesize Resource](#)
- Budgeting - [BBC Bitesize Resource](#)
- VAT [Clips: 104] - [Corbett Maths Resource](#)
- Best Buys [Clips: 62c] - [Corbett Maths Resource](#)
- Profit and Loss [Clips: 62b, 103] - [Corbett Maths Resource](#)
- Exchange Rates [Clips: 102] - [Corbett Maths Resource](#)
- Simple Interest [Clips: 105a] - [Corbett Maths Resource](#)
- Compound Interest [Clips: 105b, 145] - [Corbett Maths Resource](#)

Algebra (Foundation & Higher)

Algebra Basics

- Algebraic Notation [Clips: 22] - [Corbett Maths Resource](#)
- Substitution [Clips: 66] - [Corbett Maths Resource](#)
- Expressions, Formulae and Equations [Clips: 147] - [Corbett Maths Resource](#)
- Forming Expressions [Clips: 110] - [Corbett Maths Resource](#)
- Collecting Like Terms [Clips: 37] - [Corbett Maths Resource](#)
- Expanding Brackets [Clips: 64, 107a] - [Corbett Maths Resource](#)
- Solving Equations [Clips: 67a, 67b, 108a] - [Corbett Maths Resource](#)

Statistics (Foundation & Higher)

Statistical Processes

- Statistical Problem Solving - [BBC Bitesize Resource](#)
- Data Handling Cycle - [Corbett Maths Resource](#)
- Questionnaires [Clips: 89] - [Corbett Maths Resource](#)
- Sampling [Clips: 136] - [BBC Bitesize Resource](#)

Graphs and Charts

- Pictograms [Clips: 11] - [Corbett Maths Resource](#)
- Bar Charts [Clips: 10] - [Corbett Maths Resource](#)
- Pie Charts [Clips: 137] - [Corbett Maths Resource](#)
- Vertical Line Charts [Clips: 28] - [Corbett Maths Resource](#)
- Line Graphs [Clips: 90] - [Corbett Maths Resource](#)
- Misleading Graphs - [Corbett Maths Resource](#)



Geometry & Measure (Foundation & Higher)

- Geometric Terms [Clips: 24] - [Corbett Maths Resource](#)
- Names of 2D Shapes [Clips: 24] - [Corbett Maths Resource](#)
- Names of 3D Shapes [Clips: 24] - [Corbett Maths Resource](#)
- Measure Lines and Angles [Clips: 40a] - [Corbett Maths Resource](#)
- Draw Lines, Angles and Circles [Clips: 40b] - [Corbett Maths Resource](#)
- Read & Interpret Scales [Clips: 8] - [Corbett Maths Resource](#)
- Maps & Scale Drawings [Clips: 60a] - [Corbett Maths Resource](#)
- Bearings [Clips: 134] - [Corbett Maths Resource](#)
- Types of Angles [Clips: 6] - [Corbett Maths Resource](#)
- Angle sums [Clips: 74] - [Corbett Maths Resource](#)
- Angles in a triangle [Clips: 76a, 76b] - [Corbett Maths Resource](#)
- Angles in Parallel Lines [Clips: 75] - [Corbett Maths Resource](#)
- Time Zones, Calculations & Conversions [Clips: 21a, 21b] - [Corbett Maths Resource](#)
- Metric Units [Clips: 78a] - [Corbett Maths Resource](#)
- Metric & Imperial Unit Conversions [Clips: 78b, 78c, 78d] - [Corbett Maths Resource](#)
- Estimating Measurements - [Corbett Maths Resource](#)
- Speed, Distance and Time Calculations [Clips: 126a] - [Corbett Maths Resource](#)
- Perimeter of 2D shapes [Clips: 42] - [Corbett Maths Resource](#)
- Area of Squares & Rectangles [Clips: 43] - [Corbett Maths Resource](#)
- Area of a Triangle [Clips: 79] - [Corbett Maths Resource](#)
- Area of a Parallelogram [Clips: 80] - [Corbett Maths Resource](#)
- Area of a Trapezium [Clips: 81] - [Corbett Maths Resource](#)
- Area of Circles & Semi-Circles [Clips: 127] - [Corbett Maths Resource](#)
- Area of Compound Shapes - [Corbett Maths Resource](#)
- Surface area of Cubes & Cuboids [Clips: 82] - [Corbett Maths Resource](#)
- Surface area of Prisms [Clips: 129a] - [Corbett Maths Resource](#)
- Surface area of Cylinder [Clips: 129b] - [Corbett Maths Resource](#)
- Volume of Cubes & Cuboids [Clips: 83] - [Corbett Maths Resource](#)
- Volume of Prisms [Clips: 130] - [Corbett Maths Resource](#)
- Volume of Cylinder [Clips: 130] - [Corbett Maths Resource](#)

Indices and Standard Form (Higher)

- Negative and Zero Indices [Clips: 141] - [Corbett Maths Resource](#)
- Convert ordinary numbers into and out of standard form [Clips: 142] - [Corbett Maths Resource](#)
- Use numbers written in standard form [Clips: 142] - [Corbett Maths Resource](#)
- Calculator use with standard form [Clips: 142] - [Corbett Maths Resource](#)



Proportion (Higher)

- Direct and Inverse Proportion [Clips: 61, 99] - [Corbett Maths Resource](#)
- Find the original quantity after a percentage change [Clips: 144] - [Corbett Maths Resource](#)

Accuracy and Estimation (Higher)

- Upper and Lower Bounds [Clips: 143, 169] - [Corbett Maths Resource](#)
- Bounds Calculations [Clips: 143, 169] - [Corbett Maths Resource](#)

Financial Mathematics (Higher)

- Calculations involving multiple rates [Clips: 145] - [BBC Bitesize Resource](#)
- Annual Equivalent Rate (AER) [Clips: 168] - [Maths DIY Resource](#)
- Annual Percentage Rate (APR) - [BBC Bitesize Resource](#)

Geometry and Measure (Higher)

- Exact calculations using π [Clips: 143, 169] - [WJEC Resource](#)
- Convert between units of area and volume [Clips: 78a] - [Corbett Maths Resource](#)
- Surface Area of a Cylinder [Clips: 129b] - [Corbett Maths Resource](#)
- Surface Area of a Sphere [Clips: 180] - [Corbett Maths Resource](#)
- Surface Area of a Cone [Clips: 182a] - [Corbett Maths Resource](#)
- Volume of a Sphere [Clips: 180] - [Corbett Maths Resource](#)
- Volume of a Cone [Clips: 182a] - [Corbett Maths Resource](#)
- Volume of a Pyramid [Clips: 181] - [Corbett Maths Resource](#)

Statistics (Higher)

- Random Sampling [Clips: 163a] - [Corbett Maths Resource](#)
- Systematic Sampling [Clips: 163a] - [BBC Bitesize Resource](#)
- Stratified Sampling [Clips: 163b] - [Corbett Maths Resource](#)

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.



Key Topics to Revise for Higher Tier Mathematics - Unit 3

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

Number

- Reading and writing numbers [Clips: 2]
- 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]
- **Zero and Negative Indices** [Clips: 141]
- **Fractional Indices** [Clips: 167]
- **Standard Form** [Clips: 142]
- Equivalent fractions [Clips: 32a]
- Fraction, Decimal, Percentage Equivalence [Clips: 53, 54]
- Simplify fractions [Clips: 35a]
- Express as a fraction or percentage [Clips: 23, 43, 73]
- Fraction of an amount [Clips: 58b]
- Percentage of an amount [Clips: 55a, 55b]
- Increase/decrease by a percentage/fraction [Clips: 104]
- Add and subtract whole numbers, decimals, fractions and negative numbers [Clips: 17a, 57a, 58a]
- Multiply and divide whole numbers, decimals, fractions and negative numbers [Clips: 18a, 18b, 19, 34a, 34b, 57b, 58c]
- Calculator skills [Clips: 59]
- Order of operations [Clips: 35]
- Money calculations [Clips: 62a, 62b]
- **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]
- Adding, subtracting and simplifying algebraic fractions [Clips: 121, 176a]
- **Simplifying more complex algebraic fractions and solving equations with these** [Clips: 176b]
- Expanding single brackets [Clips: 64, 107a]
- **Expanding double brackets** [Clips: 107b, 154]



- Forming and solving linear equations **with fractions** [Clips: 67a, 108a, 110]
- **Quadratic formula** [Clips: 173]
- Trial and improvement [Clips: 113]
- **Direct and inverse proportion** [Clips: 171]
- **Velocity-time graphs** [Clips: 179a]
- **Rates of change** [Clips: 179b]
- **Trapezium rule** [Clips: 179c]

Geometry and Measure

- Geometric Definitions [Clips: 24]
- Names and properties of 2D & 3D shapes [Clips: 7, 25, 76b, 124]
- Accurate measure [Clips: 40a]
- Accurate drawing [Clips: 40b, 41]
- Loci [Clips: 122]
- Scale drawings and maps
- Bearings [Clips: 134]
- Plans and elevations of 3D shapes, on isometric paper [Clips: 123]
- Nets [Clips: 39]
- Basic Angle facts [Clips: 6, 74]
- Angles in parallel lines [Clips: 75]
- Angles in triangles and quadrilaterals [Clips: 77, 79]
- Metric Unit Conversions [Clips: 78a]
- Compound measures [Clips: 126a, 126b, 126c]
- Convert between area and volume [Clips: 187]
- Estimate area of a shape drawn on a grid
- Perimeter and area of shapes [Clips: 42, 43, 79, 80, 81, 127]
- Arc length [Clips: 72]
- Sector and segment area [Clips: 159]
- 3D Shapes: Surface area and volume of cube, cuboid, prism [Clips: 82, 83, 129a, 130]
- **3D Shapes: Surface area and volume of a cylinder, sphere, cone, pyramid and compound shape** [Clips: 129b, 180]
- Pythagoras in 2D [Clips: 131a, 131b, 157]
- **Pythagoras in 3D** [Clips: 184]
- **Trigonometry SOHCAHTOA** [Clips: 158]
- **Sine and Cosine rule** [Clips: 183a, 183b, 185]
- **Trigonometric area of a triangle** [Clips: 183c]
- **Trigonometric graphs** [Clips: 186a, 186b]
- Time [Clips: 21a, 21b]



Data:

- Collecting, processing, presenting and interpreting data [Clips: 27]
- Questionnaires [Clips: 89]
- Tally charts and frequency tables [Clips: 10]
- **Sampling methods: random, systematic and stratified sampling** [Clips: 136, 163a, 163b]
- Pictograms, Bar charts and Pie charts [Clips: 11, 137]
- Line graphs including vertical line graphs [Clips: 28]
- Scatter diagrams [Clips: 92]
- Averages and the Range [Clips: 93, 138a]
- Find the mean, modal class and **median** of a grouped frequency distribution [Clips: 138a, 138b, 139b]
- **Cumulative frequency** [Clips: 164a]
- **Range and interquartile range** [Clips: 139a]
- **Box and whisker diagrams** [Clips: 164b]
- **Histograms** [Clips: 190]

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.

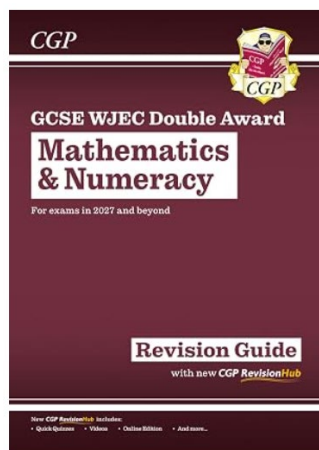


Helping your child to revise

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:

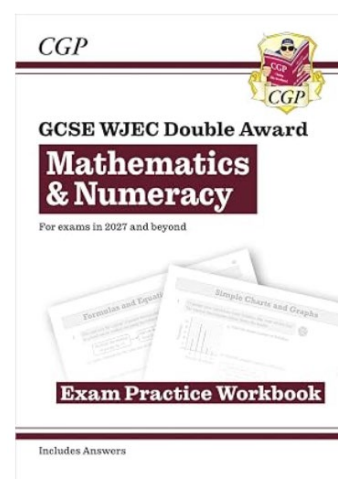
<u>MathsDIY</u> This website provides access to past paper questions, solutions and mark schemes. You will also find past paper questions which are grouped by topic.	<u>Mathswatch</u> Provides pupils with videos and accompanying practice questions on a range of different topics. Students can find their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

Unfortunately, specific Unit 1 & 3 Maths textbooks do 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/>