

WJEC GCSE Maths Formula Lists (Wales): Mathematics and Numeracy Units 1 to 3

Mathematics and Numeracy (Double Award), with legacy resits to June 2027

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WJEC GCSE Maths in Wales has no England-style formula sheet. Instead, Unit 1 and Unit 3 papers print a formula list at the start, and Unit 2, the non-calculator paper, prints none. This guide shows each list and the formulae you must still learn by heart.

Quick answers

Is there a formula sheet in WJEC GCSE Maths?

Unit 1 and Unit 3 papers print a formula list. Unit 2 has none.

What is on the Foundation lists?

The area of a trapezium and the volume of an object with a uniform cross-section.

What do the Higher lists add?

Unit 1 Higher adds the sphere and cone formulae and the Annual Equivalent Rate. Unit 3 Higher adds the sphere and cone formulae, the sine and cosine rules, $\frac{1}{2}ab \sin C$ and the quadratic formula.

What must I memorise?

Everything in the Memorise section, including the circumference and area of a circle, Pythagoras' theorem and compound interest, which the England sheet gives but WJEC does not.

The four groups

On the sheet printed on the formula sheet you get with every paper.

Given in the question not on the sheet, but printed inside any question that needs it.

Memorise tested at your tier, and nobody gives it to you.

Not on spec not tested at your tier, so there is nothing to learn.

The last two are not the same thing. A formula your paper will never ask about is not one to memorise, and time spent learning it is time taken from something that will be tested.

Official specification: [WJEC GCSE Mathematics and Numeracy \(Double Award\) specification, version 5, September 2025](https://www.wjec.co.uk/specifications/wjec-gcse-maths-and-numeracy-double-award-specification-version-5-september-2025) (wjec.co.uk)

[Read the full GCSE formula sheet guide](#)

What each paper prints

The England formula sheet does not apply in Wales. WJEC prints a formula list inside some papers instead, and what it holds depends on your unit and tier.

Formula List – Unit 1 Foundation Tier

Area of a trapezium

$$\text{Area of a trapezium} = \frac{1}{2}(a + b)h$$

Volume of an Object with a Uniform Cross-section
(e.g. Prism, Cylinder)

$$\text{Volume} = \text{area of cross section} \times \text{length}$$

Formula List – Unit 1 Higher Tier

Area of a trapezium

$$\text{Area of a trapezium} = \frac{1}{2}(a + b)h$$

Volume of an Object with a Uniform Cross-section (e.g. Prism, Cylinder)

Volume = area of cross section $\times$ length

Volume of a sphere

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

Surface area of a sphere

$$\text{Surface area of a sphere} = 4\pi r^2$$

Volume of a cone

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

Curved surface area of a cone

Curved surface area of a cone = $\pi r l$

Annual Equivalent Rate (AER)

AER, as a decimal, is calculated using the formula

$$\left(1 + \frac{i}{n}\right)^n - 1,$$

where i is the nominal interest rate per annum as a decimal and n is the number of compounding periods per annum.

Formula List – Unit 3 Foundation Tier

Area of a trapezium

$$\text{Area of a trapezium} = \frac{1}{2}(a + b)h$$

Volume of an Object with a Uniform Cross-section (e.g. Prism, Cylinder)

Volume = area of cross section $\times$ length

Formula List – Unit 3 Higher Tier

Area of a trapezium

$$\text{Area of a trapezium} = \frac{1}{2}(a + b)h$$

Volume of an Object with a Uniform Cross-section (e.g. Prism, Cylinder)

Volume = area of cross section $\times$ length

Volume of a sphere

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

Surface area of a sphere

$$\text{Surface area of a sphere} = 4\pi r^2$$

Volume of a cone

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

Curved surface area of a cone

Curved surface area of a cone = $\pi r l$

In any triangle ABC ,

$$\text{Sine rule : } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine rule

$$\text{Cosine rule : } a^2 = b^2 + c^2 - 2bc \cos A$$

Area of a triangle = $\frac{1}{2}ab \sin C$

$$\text{Area of triangle} = \frac{1}{2}ab \sin C$$

The Quadratic Equation

The solutions of $ax^2 + bx + c = 0$ where $a \neq 0$ are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Status table: Mathematics and Numeracy

Formula	U1 F	U1 H	U2 F	U2 H	U3 F	U3 H
AREA AND PERIMETER						
Area of a trapezium	On the sheet	On the sheet	Not on spec	Not on spec	On the sheet	On the sheet
Circumference of a circle	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Area of a circle	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Area of a rectangle	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Area of a parallelogram	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Area of a triangle	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Arc length	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Area of a sector	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Area of a segment	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
VOLUME AND SURFACE AREA						
Volume of a prism	On the sheet	On the sheet	Not on spec	Not on spec	On the sheet	On the sheet
Volume of a cuboid	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Surface area of a cuboid	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Volume of a cylinder	On the sheet	On the sheet	Not on spec	Not on spec	On the sheet	On the sheet
Curved surface area of a cylinder	Not on spec	Memorise	Not on spec	Not on spec	Not on spec	Memorise
Total surface area of a cylinder	Not on spec	Memorise	Not on spec	Not on spec	Not on spec	Memorise
Volume of a pyramid	Not on spec	Memorise	Not on spec	Not on spec	Not on spec	Memorise
Curved surface area of a cone	Not on spec	On the sheet	Not on spec	Not on spec	Not on spec	On the sheet
Volume of a cone	Not on spec	On the sheet	Not on spec	Not on spec	Not on spec	On the sheet
Surface area of a sphere	Not on spec	On the sheet	Not on spec	Not on spec	Not on spec	On the sheet
Volume of a sphere	Not on spec	On the sheet	Not on spec	Not on spec	Not on spec	On the sheet
Similar figures: area and volume scale factors	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
ALGEBRA						
Difference of two squares	Not on spec	Not on spec	Not on spec	Memorise	Not on spec	Not on spec
Quadratic formula	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	On the sheet
n th term of a linear (arithmetic) sequence	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
n th term of a quadratic sequence	Not on spec	Not on spec	Not on spec	Memorise	Not on spec	Not on spec
Direct proportion	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Inverse proportion	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Trapezium rule	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise

Formula	U1 F	U1 H	U2 F	U2 H	U3 F	U3 H
PYTHAGORAS AND TRIGONOMETRY						
Pythagoras' theorem	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Trigonometric ratios (sin, cos, tan)	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Sine rule	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	On the sheet
Cosine rule	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	On the sheet
Area of a triangle = $\frac{1}{2}ab \sin C$	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	On the sheet
COORDINATE GEOMETRY						
Gradient of a straight line	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Memorise
Equation of a straight line	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Gradients of perpendicular lines	Not on spec	Not on spec	Not on spec	Memorise	Not on spec	Not on spec
Midpoint of a line segment	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
NUMBER AND FINANCE						
Percentage change	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
One quantity as a percentage of another	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Reverse percentage (original value)	Not on spec	Memorise	Not on spec	Not on spec	Not on spec	Not on spec
Simple interest	Memorise	Memorise	Not on spec	Not on spec	Not on spec	Not on spec
Compound interest (Total accrued)	Memorise	Memorise	Not on spec	Not on spec	Not on spec	Not on spec
Depreciation or decay	Memorise	Memorise	Not on spec	Not on spec	Not on spec	Not on spec
AER	Not on spec	On the sheet	Not on spec	Not on spec	Not on spec	Not on spec
APR or loan-repayment formula	Given in the question	Given in the question	Not on spec	Not on spec	Not on spec	Not on spec
STATISTICS AND PROBABILITY						
Mean	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Mean from a frequency table	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Estimated mean from grouped data	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Median (position of the middle value)	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Range	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Interquartile range	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Pie chart sector angle	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Frequency density	Not on spec	Not on spec	Not on spec	Not on spec	Not on spec	Memorise
Probability of an event (equally likely outcomes)	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Relative frequency	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Expected frequency	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Probability of an event not happening	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Addition rule for mutually exclusive events	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Multiplication rule for independent events	Not on spec	Not on spec	Memorise	Memorise	Not on spec	Not on spec
Multiplication rule with conditional probability	Not on spec	Not on spec	Not on spec	Memorise	Not on spec	Not on spec

Formula	U1 F	U1 H	U2 F	U2 H	U3 F	U3 H
Stratified sample size	Not on spec	Memorise	Not on spec	Not on spec	Not on spec	Not on spec
Mean point of a scatter diagram	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
COMPOUND UNITS						
Speed	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Density	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Population density	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Fuel consumption	Memorise	Memorise	Not on spec	Not on spec	Memorise	Memorise
Flow rate	Not on spec	Not on spec	Not on spec	Not on spec	Memorise	Memorise
Rate of pay	Memorise	Memorise	Not on spec	Not on spec	Not on spec	Not on spec
Unit price	Memorise	Memorise	Not on spec	Not on spec	Not on spec	Not on spec

Memorise: GCSE Mathematics and Numeracy

That means Welsh students must memorise several formulae that students in England find on their sheet: the circumference and area of a circle (Units 1 and 3), Pythagoras' theorem (Unit 3), the trigonometric ratios (Unit 3, Higher) and compound interest (Unit 1).

Area and perimeter

Circumference of a circle (U1 F, U1 H, U3 F, U3 H)

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

Area of a circle (U1 F, U1 H, U3 F, U3 H)

$$\text{Area of a circle} = \pi r^2$$

Area of a rectangle (U1 F, U1 H, U3 F, U3 H)

length $\times$ width.

Area of a parallelogram (U1 F, U1 H, U3 F, U3 H)

base $\times$ perpendicular height.

Area of a triangle (U1 F, U1 H, U3 F, U3 H)

$$\frac{1}{2} \times \text{base} \times \text{perpendicular height.}$$

Arc length (U3 H)

$$\frac{\theta}{360} \times 2\pi r$$

Area of a sector (U3 H)

$$\frac{\theta}{360} \times \pi r^2$$

Area of a segment (U3 H)

$$\text{area of the sector} - \text{area of the triangle, } \frac{\theta}{360} \pi r^2 - \frac{1}{2} r^2 \sin \theta.$$

Volume and surface area

Volume of a cuboid (U1 F, U1 H, U3 F, U3 H)

length $\times$ width $\times$ height.

Surface area of a cuboid (U1 F, U1 H, U3 F, U3 H)

$$2(lw + lh + wh)$$

Curved surface area of a cylinder (U1 H, U3 H)

$$2\pi r h$$

Total surface area of a cylinder (U1 H, U3 H)

$$2\pi r^2 + 2\pi r h$$

Volume of a pyramid (U1 H, U3 H)
 $\frac{1}{3} \times \text{area of base} \times \text{perpendicular height}$
Similar figures: area and volume scale factors (U3 H)

if lengths are multiplied by k , areas are multiplied by k^2 and volumes by k^3 .

Algebra

Difference of two squares (U2 H)

$$a^2 - b^2 = (a + b)(a - b)$$

nth term of a linear (arithmetic) sequence (U2 F, U2 H)

$dn + (a - d)$, where a is the first term and d is the common difference.

nth term of a quadratic sequence (U2 H)

$an^2 + bn + c$, where a is half the second difference.

Direct proportion (U3 H)

$$y = kx$$

Inverse proportion (U3 H)

$$y = \frac{k}{x}$$

Trapezium rule (U3 H)

area $\approx \frac{1}{2}h[y_0 + y_n + 2(y_1 + \dots + y_{n-1})]$

Pythagoras and trigonometry

Pythagoras' theorem (U3 F, U3 H)

$$a^2 + b^2 = c^2$$

Trigonometric ratios (sin, cos, tan) (U3 H)

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

Coordinate geometry

Gradient of a straight line (U2 F, U2 H, U3 H)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Equation of a straight line (U2 F, U2 H)

$y = mx + c$, where m is the gradient and c is the y -intercept.

Gradients of perpendicular lines (U2 H)

$$m_1 \times m_2 = -1$$

Midpoint of a line segment (U2 F, U2 H)

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Number and finance

Percentage change (U1 F, U1 H, U3 F, U3 H)

$$\frac{\text{new} - \text{original}}{\text{original}} \times 100$$

One quantity as a percentage of another (U1 F, U1 H, U2 F, U2 H, U3 F, U3 H)

$$\frac{A}{B} \times 100$$

Reverse percentage (original value) (U1 H)

original amount = $\frac{\text{new amount}}{\text{multiplier}}$; after a 15% increase, divide by 1.15.

Simple interest (U1 F, U1 H)

$I = \frac{P \times r \times n}{100}$, for $r\%$ a year over n years.

Compound interest (Total accrued) (U1 F, U1 H)

$$\text{Total accrued} = P\left(1 + \frac{r}{100}\right)^n$$

Depreciation or decay (U1 F, U1 H)

$$P\left(1 - \frac{r}{100}\right)^n$$

Statistics and probability

Mean (U3 F, U3 H)

$$\frac{\text{sum of the values}}{\text{number of values}}$$

Mean from a frequency table (U3 F, U3 H)

$$\frac{\sum fx}{\sum f}$$

Estimated mean from grouped data (U3 F, U3 H)

$$\frac{\sum(f \times \text{midpoint})}{\sum f}$$

Median (position of the middle value) (U3 F, U3 H)

the $\frac{n+1}{2}$ th value when the data are in order.

Range (U3 F, U3 H)

largest value – smallest value.

Interquartile range (U3 H)

upper quartile – lower quartile.

Pie chart sector angle (U1 F, U1 H, U3 F, U3 H)

$$\frac{\text{frequency}}{\text{total frequency}} \times 360^\circ$$

Frequency density (U3 H)

$$\frac{\text{frequency}}{\text{class width}}$$

Probability of an event (equally likely outcomes) (U2 F, U2 H)

$$\frac{\text{number of favourable outcomes}}{\text{total number of equally likely outcomes}}$$

Relative frequency (U2 F, U2 H)

$$\frac{\text{number of times the outcome happens}}{\text{total number of trials}}$$

Expected frequency (U2 F, U2 H)

$P(A) \times \text{number of trials}$.

Probability of an event not happening (U2 F, U2 H)

$$P(\text{not } A) = 1 - P(A)$$

Addition rule for mutually exclusive events (U2 F, U2 H)

$$P(A \text{ or } B) = P(A) + P(B)$$

Multiplication rule for independent events (U2 F, U2 H)

$$P(A \text{ and } B) = P(A) \times P(B)$$

Multiplication rule with conditional probability (U2 H)

$$P(A \text{ and } B) = P(A \text{ given } B)P(B)$$

Stratified sample size (U1 H)

(size of stratum ÷ size of population) × sample size

Mean point of a scatter diagram (U3 F, U3 H)

(mean of x, mean of y)

Compound units

Speed (U1 F, U1 H, U3 F, U3 H)

$$\frac{\text{distance}}{\text{time}}$$

Density (U3 F, U3 H)

$$\frac{\text{mass}}{\text{volume}}$$

Population density (U3 F, U3 H)

population ÷ area

Fuel consumption (U1 F, U1 H, U3 F, U3 H)

distance ÷ fuel used (or fuel used ÷ distance, as the unit states)

Flow rate (U3 F, U3 H)

volume ÷ time

Rate of pay (U1 F, U1 H)

$$\frac{\text{pay}}{\text{hours worked}}$$

Unit price (U1 F, U1 H)

$$\frac{\text{total cost}}{\text{number of units}}$$

Legacy resits: GCSE Mathematics and Mathematics–Numeracy

Legacy GCSE Mathematics and Mathematics–Numeracy (resits until June 2027)

Every paper prints a formula list. Foundation gives the area of a trapezium. Intermediate adds the volume of a prism. Higher gives eleven formulae, including the sphere and cone formulae, the sine and cosine rules, the quadratic formula and the Annual Equivalent Rate.

Formula List – Foundation Tier

Area of a trapezium

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$

Formula List – Intermediate Tier

Area of a trapezium

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$

Volume of a prism

Volume of prism = area of cross-section × length

Formula List – Higher Tier

Area of a trapezium

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$

Volume of a prism

Volume of prism = area of cross-section $\times$ length

$$\text{Volume of sphere} = \frac{4}{3}\pi r^3$$

$$\text{Surface area of sphere} = 4\pi r^2$$

$$\text{Volume of cone} = \frac{1}{3}\pi r^2 h$$

$$\text{Curved surface area of cone} = \pi r l$$

In any triangle ABC

$$\text{Sine rule } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine rule

$$\text{Cosine rule } a^2 = b^2 + c^2 - 2bc \cos A$$

Area of a triangle = $\frac{1}{2}ab \sin C$

$$\text{Area of triangle} = \frac{1}{2}ab \sin C$$

The Quadratic Equation

The solutions of $ax^2 + bx + c = 0$ where $a \neq 0$ are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Annual Equivalent Rate (AER)

AER, as a decimal, is calculated using the formula

$$\left(1 + \frac{i}{n}\right)^n - 1$$

, where i is the nominal interest rate per annum as a decimal and n is the number of compounding periods per annum.

Status, 3300 and 3310

Formula	3300 F	3300 I	3300 H	3310 F	3310 I	3310 H
AREA AND PERIMETER						
Area of a trapezium	On the sheet	On the sheet	On the sheet	On the sheet	On the sheet	On the sheet
Circumference of a circle	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Area of a circle	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Area of a rectangle	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Area of a parallelogram	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Area of a triangle	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
VOLUME AND SURFACE AREA						
Volume of a prism	Not on spec	On the sheet	On the sheet	Not on spec	On the sheet	On the sheet
Volume of a cuboid	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Volume of a pyramid	Not on spec	Not on spec	Memorise	Not on spec	Not on spec	Memorise
Curved surface area of a cone	Not on spec	Not on spec	On the sheet	Not on spec	Not on spec	On the sheet
Volume of a cone	Not on spec	Not on spec	On the sheet	Not on spec	Not on spec	On the sheet
Surface area of a sphere	Not on spec	Not on spec	On the sheet	Not on spec	Not on spec	On the sheet

Formula	3300 F	3300 I	3300 H	3310 F	3310 I	3310 H
Volume of a sphere	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet
ALGEBRA						
Quadratic formula	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet
PYTHAGORAS AND TRIGONOMETRY						
Pythagoras' theorem	<i>Not on spec</i>	Memorise	Memorise	<i>Not on spec</i>	Memorise	Memorise
Trigonometric ratios (sin, cos, tan)	<i>Not on spec</i>	Memorise	Memorise	<i>Not on spec</i>	Memorise	Memorise
Sine rule	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet
Cosine rule	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet
Area of a triangle = $\frac{1}{2}ab \sin C$	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet
NUMBER AND FINANCE						
Compound interest (Total accrued)	<i>Not on spec</i>	Memorise	Memorise	<i>Not on spec</i>	Memorise	Memorise
AER	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet	<i>Not on spec</i>	<i>Not on spec</i>	On the sheet
APR or loan-repayment formula	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
STATISTICS AND PROBABILITY						
Multiplication rule with conditional probability	<i>Not on spec</i>	<i>Not on spec</i>	Memorise	<i>Not on spec</i>	<i>Not on spec</i>	<i>Not on spec</i>
COMPOUND UNITS						
Speed	Memorise	Memorise	Memorise	Memorise	Memorise	Memorise
Density	<i>Not on spec</i>	Memorise	Memorise	<i>Not on spec</i>	Memorise	Memorise

Checked against WJEC's official formulae sheets and specification, October 2026.

Official sources

[WJEC GCSE Mathematics and Numeracy \(Double Award\) specification, version 5, September 2025](#) (wjec.co.uk)

[WJEC legacy GCSE Mathematics \(3300\) specification, version 2, January 2019](#) (wjec.co.uk)

[WJEC legacy GCSE Mathematics–Numeracy \(3310\) specification, version 2, January 2019](#) (wjec.co.uk)

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[AQA GCSE Maths formula sheet \(PDF\)](#)

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