



GCSE 9-1 MATHEMATICS FORMULAE

SUITABLE FOR AQA AND EDEXCEL / HIGHER TIER

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Formulae to Memorise

You will not be given these formulae in the exam

Areas



Area of a rectangle = $l \times w$



Area of a parallelogram = $b \times h$



Area of a triangle = $\frac{1}{2} b \times h$



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

Volumes



Volume of a cuboid = $l \times w \times h$



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



Volume of a cylinder = $\pi r^2 h$



Volume of a pyramid = $\frac{1}{3} \times$ area of base $\times h$

Circumference and Area of a Circle



Circumference of a circle = $2\pi r = \pi d$
Area of a circle = πr^2

Pythagoras' Theorem



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

Compound Measures

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

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

$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

The Quadratic Formula

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

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

Trigonometry



$$\sin x = \frac{o}{h}, \cos x = \frac{a}{h}, \tan x = \frac{o}{a}$$



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

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

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

Compound Interest

Where P is the principal amount, r is the interest rate (as a percentage), n is the number of times that the interest is compounded.

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

Probability

Where P(A) is the probability of outcome A and P(B) is the probability of outcome B:

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

Conditional Probability

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

Formulae given in the Exam

You do not need to memorise these formulae

Volume and Surface Area



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

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



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

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

Kinematic Formulae

Where a is constant acceleration, u is initial velocity, v is final velocity, s is displacement from the position where $t = 0$ and t is time taken.

$$v^2 = u^2 + at^2$$

$$s = ut + \frac{1}{2} at^2$$

$$v^2 = u^2 + 2as$$

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AN Whitehead

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'AN Whitehead' text.

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$t + 10 = 5x$ $t + 14 = 3x$ $5 + t = 10$ $2x + 15 = 7$ $t + 22 = 26$ $5x + 9 = t$ $2 + 5x = 11$ $t + 10 = 4$ $2 + 4 = 6$ $8 = 7x$ $t + 17 = 6$ $79 = 10x$ $t + 5x = 80$ $52 = 11x$

$t + 16 = 10x$ $t + 80 = 2x$ $t + 5x = 81$ $t + 8x = 114$ $10 + 11x = 105$ $t + 28 = 4x$ 11

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