



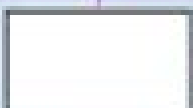
GCSE 9-1 MATHEMATICS FORMULAE

SUITABLE FOR AQA AND EDEXCEL / FOUNDATION TIER

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Formulae to Memorise

You will not be given these formulae in the exam

Areas	Volumes	Circumference and Area of a Circle	Trigonometry
 Area of a rectangle = $l \times w$	 Volume of a cuboid = $l \times w \times h$	 Circumference of a circle = $2\pi r$ and Area of a circle = πr^2	 $\sin \theta = \frac{a}{c}$ $\cos \theta = \frac{b}{c}$ $\tan \theta = \frac{a}{b}$
 Area of a parallelogram = $b \times h$	 Volume of a prism = area of cross section $\times$ length	Pythagoras' Theorem  $a^2 + b^2 = c^2$	Compound Interest Where P is the principal amount, r is the interest rate (as a percentage) over a given period and n is the number of times that the interest is compounded Total amount = $P \left(1 + \frac{r}{100} \right)^n$
 Area of a triangle = $\frac{1}{2} b \times h$	 Volume of a cylinder = $\pi r^2 h$	Compound Measures speed = $\frac{\text{distance}}{\text{time}}$ density = $\frac{\text{mass}}{\text{volume}}$ pressure = $\frac{\text{force}}{\text{area}}$	Probability Where P(A) is the probability of outcome A and P(B) is the probability of outcome B $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
 Area of a trapezium = $\frac{1}{2} (a + b) h$	 Volume of a pyramid = $\frac{1}{3} \times \text{area of base} \times h$		

Formulae given in the Exam

You do not need to memorise these formulae

Volume and Surface Area



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

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



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

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

Kinematics Formulae

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

$$v = u + at$$

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

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

Gcse Mathematics 1mao Formulae Foundation Tier

E Durkheim



Gcse Mathematics 1mao Formulae Foundation Tier:

Formula One Maths ,2000

This book delves into Gcse Mathematics 1mao Formulae Foundation Tier. Gcse Mathematics 1mao Formulae Foundation Tier is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gcse Mathematics 1mao Formulae Foundation Tier, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gcse Mathematics 1mao Formulae Foundation Tier
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