OCR A Level Maths Formula Mat Formulae and Identities You Need to Know

Laws of Indices

$a^m a^n \equiv a^{m+n}$

$\frac{a^m}{a^n} \equiv a^{m-n}$

$(a^m)^n \equiv a^{mn}$

Laws of Logarithms

$x = a^n \Leftrightarrow n = \log_a x$

$\log_a x + \log_a y \equiv \log_a (xy)$

$\log_a x - \log_a y \equiv \log_a \left(\frac{x}{y}\right)$

$k\log_a x \equiv \log_a (x^k)$

Coordinate Geometry

A straight line, gradient m, through (x_1, y_1) has equation $y - y_1 = m(x - x_1)$.

Straight lines with gradient m_1 and m_2 are perpendicular when $m_1 m_2 = -1$.

Sequences

Arithmetic progression:

$u_n = a + (n-1)d$

Geometric progression:

$u_n = ar^{n-1}$

Trigonometry

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

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

Area: area $= \frac{1}{2}ab\sin C$

$\tan\theta \equiv \frac{\sin\theta}{\cos\theta}$

$\sec\theta \equiv \frac{1}{\cos\theta}$

$\operatorname{cosec}\theta \equiv \frac{1}{\sin\theta}$

$\cot\theta \equiv \frac{1}{\tan\theta}$

$\cos^2\theta + \sin^2\theta \equiv 1$

$\sec^2\theta \equiv 1 + \tan^2\theta$

$\operatorname{cosec}^2\theta \equiv 1 + \cot^2\theta$

$\sin 2\theta = 2\sin\theta\cos\theta$

$\cos 2\theta = \cos^2\theta - \sin^2\theta$

$\tan 2\theta = \frac{2\tan\theta}{1 - \tan^2\theta}$

Mechanics

weight $= mg$

$F \leq \mu R$

$F = ma$

$v = \frac{dr}{dt}$ $\qquad a = \frac{dv}{dt} = \frac{d^2r}{dt^2}$

$r = \int v\,dt$ $\qquad v = \int a\,dt$

Perimeter, Area and Volume

For a circle radius r and diameter d:

$C = 2\pi r = \pi d$

$A = \pi r^2$

For a trapezium with parallel sides a and b and height h:

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

For a sector radius r, angle θ (in radians) and arc length s:

$s = r\theta$

$A = \frac{1}{2}r^2\theta$

Integration

Function	Integral
$\sin kx$	$-\frac{1}{k}\cos(kx) + c$
$\cos kx$	$\frac{1}{k}\sin(kx) + c$
e^{kx}	$\frac{1}{k}e^{kx} + c$
$\frac{1}{x}$	$\ln\lvert x\rvert + c$, $x \neq 0$

Reverse Chain rule:

$\int f'(g(x))g'(x)\,dx = f(g(x)) + c$

Differentiation

Function	Derivative
$\sin kx$	$k\cos(kx)$
$\cos kx$	$-k\sin(kx)$
e^{kx}	ke^{kx}
$\ln x$	$\frac{1}{x}$

Chain rule:

If $y = f(g(x))$, $\frac{dy}{dx} = f'(g(x))g'(x)$

$\frac{dy}{dx} = \frac{dy}{du} \times \frac{du}{dx}$

Product rule:

The derivative of $y = f(x)g(x)$,

$\frac{dy}{dx} = f'(x)g(x) + f(x)g'(x)$

$\frac{dy}{dx} = u\frac{dv}{dx} + v\frac{du}{dx}$

Statistics

The mean of a set of data:

$\bar{x} = \frac{\sum x}{n} = \frac{\sum fx}{\sum f}$

The standard Normal variable:

$Z = \frac{X - \mu}{\sigma}$ where $X \sim N(\mu, \sigma^2)$

Vectors

$|x\mathbf{i} + y\mathbf{j} + z\mathbf{k}| = \sqrt{x^2 + y^2 + z^2}$

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Trigonometric Identities

$\sin(A \pm B) \equiv \sin A\cos B \pm \cos A\sin B$

$\cos(A \pm B) \equiv \cos A\cos B \mp \sin A\sin B$

$\tan(A \pm B) \equiv \frac{\tan A \pm \tan B}{1 \mp \tan A\tan B}$ $\left(A \pm B \neq \left(k + \frac{1}{2}\right)\pi\right)$

Numerical Methods

Trapezium rule:

$\int_a^b y\,dx \approx \frac{1}{2}h\{(y_0 + y_n) + 2(y_1 + y_2 + \cdots + y_{n-1})\}$

where $h = \frac{b-a}{n}$

Newton-Raphson method:

$f(\alpha) = 0$: $x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$

The Binomial Distribution

If $X \sim B(n, p)$ then:

$P(X = x) = \binom{n}{x}p^x(1-p)^{n-x}$

Mean of $X = np$

Variance of $X = np(1-p)$

The Normal Distribution

If $X \sim N(\mu, \sigma^2)$ then:

$\bar{X} \sim N\left(\mu, \frac{\sigma^2}{n}\right)$

$\frac{\bar{X} - \mu}{\frac{\sigma}{\sqrt{n}}} \sim N(0, 1)$

Standard Deviation

$\sqrt{\frac{\sum(x-\bar{x})^2}{n}} = \sqrt{\frac{\sum x^2}{n} - \bar{x}^2}$ or $\sqrt{\frac{\sum f(x-\bar{x})^2}{\sum f}} = \sqrt{\frac{\sum fx^2}{\sum f} - \bar{x}^2}$

Small Angle Approximations

Where θ is measured in radians and small:

$\sin\theta \approx \theta$

$\cos\theta \approx 1 - \frac{1}{2}\theta^2$

$\tan\theta \approx \theta$

Kinematics

Motion in a straight line:

$v = u + at$

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

$s = vt - \frac{1}{2}at^2$

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

$s = \frac{1}{2}(u + v)t$

Motion in two dimensions:

$\mathbf{v} = \mathbf{u} + \mathbf{at}$

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

$\mathbf{s} = \mathbf{vt} - \frac{1}{2}\mathbf{at}^2$

$\mathbf{s} = \frac{1}{2}(\mathbf{u} + \mathbf{v})t$

Differentiation

Function	Derivative
$\tan kx$	$k\sec^2 kx$
$\sec x$	$\sec x\tan x$
$\cot x$	$-\operatorname{cosec}^2 x$
$\operatorname{cosec} x$	$-\operatorname{cosec} x\cot x$

First principles:

$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$

Quotient rule:

$y = \frac{u}{v}$ $\qquad \frac{dy}{dx} = \frac{v\frac{du}{dx} - u\frac{dv}{dx}}{v^2}$

Integration

$\int \frac{f'(x)}{f(x)}dx = \ln|f(x)| + c$

$\int f'(x)[f(x)]^n dx = \frac{1}{n+1}[f(x)]^{n+1} + c$

Integration by parts:

$\int u\frac{dv}{dx}dx = uv - \int v\frac{du}{dx}dx$

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Clemens Wendtner

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Table of Contents Ocr Maths A Level Spapers 23

1. Understanding the eBook Ocr Maths A Level Spapers 23
    - The Rise of Digital Reading Ocr Maths A Level Spapers 23
    - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Maths A Level Spapers 23
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Ocr Maths A Level Spapers 23
    - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Maths A Level Spapers 23
    - Personalized Recommendations
    - Ocr Maths A Level Spapers 23 User Reviews and Ratings
    - Ocr Maths A Level Spapers 23 and Bestseller Lists

5. Accessing Ocr Maths A Level Spapers 23 Free and Paid eBooks
    - Ocr Maths A Level Spapers 23 Public Domain eBooks
    - Ocr Maths A Level Spapers 23 eBook Subscription Services
    - Ocr Maths A Level Spapers 23 Budget-Friendly Options
6. Navigating Ocr Maths A Level Spapers 23 eBook Formats
    - ePub, PDF, MOBI, and More
    - Ocr Maths A Level Spapers 23 Compatibility with Devices
    - Ocr Maths A Level Spapers 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Ocr Maths A Level Spapers 23
    - Highlighting and Note-Taking Ocr Maths A Level Spapers 23
    - Interactive Elements Ocr Maths A Level Spapers 23
8. Staying Engaged with Ocr Maths A Level Spapers 23
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Ocr Maths A Level Spapers 23
9. Balancing eBooks and Physical Books Ocr Maths A Level Spapers 23
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Ocr Maths A Level Spapers 23
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Ocr Maths A Level Spapers 23
    - Setting Reading Goals Ocr Maths A Level Spapers 23
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Maths A Level Spapers 23
    - Fact-Checking eBook Content of Ocr Maths A Level Spapers 23
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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eighteenth century holding a deep interest in the natural world he wrote several poems on the subject and established a botanical society at lichfield see rcin 1090547 to translate the works of the swedish naturalist carl linnaeus

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