

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

Index Laws
$a^m \times a^n = a^{m+n}$
$\frac{a^m}{a^n} = a^{m-n}$
$(a^m)^n = a^{mn}$

Laws of Logarithms
$x = a^y \Leftrightarrow y = \log_a x$
$\log_a x + \log_a y = \log_a(xy)$
$\log_a x - \log_a y = \log_a\left(\frac{x}{y}\right)$
$\log_a a = \log_a(a^1)$

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 = $\frac{1}{2}ab \sin C$
$\tan \theta = \frac{\sin \theta}{\cos \theta}$
$\sec \theta = \frac{1}{\cos \theta}$
$\operatorname{cosec} \theta = \frac{1}{\sin \theta}$
$\cot \theta = \frac{1}{\tan \theta}$
$\cos^2 \theta + \sin^2 \theta = 1$
$\sec^2 \theta = 1 + \tan^2 \theta$
$\operatorname{cosec}^2 \theta = 1 + \cot^2 \theta$
$\sin 2\theta = 2 \sin \theta \cos \theta$
$\cos 2\theta = \cos^2 \theta - \sin^2 \theta$
$\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$

Mechanics
weight = mg
$F = ma$
$F = mv$
$v = \frac{dx}{dt}$ $a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$
$x = \int v dt$ $v = \int a dt$

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
$\sin bx$	$-\frac{1}{b} \cos(bx) + c$
$\cos bx$	$\frac{1}{b} \sin(bx) + c$
e^{ax}	$\frac{1}{a} e^{ax} + c$
$\frac{1}{x}$	$\ln x + c, x \neq 0$

Reverse Chain rule:
$\int f(g(x))g'(x) dx = f(u) + c$

Differentiation	
Function	Derivative
$\sin bx$	$b \cos(bx)$
$\cos bx$	$-b \sin(bx)$
e^{ax}	ae^{ax}
$\ln x$	$\frac{1}{x}$

Chain rule:
If $y = f(u)$ and $\frac{dy}{du} = f'(u)$ and $u = g(x)$
$\frac{dy}{dx} = \frac{dy}{du} \times \frac{du}{dx}$

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:
$\bar{x} = \frac{\sum x_i}{n} = \frac{\sum fx}{n}$
The standard Normal variable:
$Z = \frac{x - \mu}{\sigma}$ where $Z \sim N(0, 1)$

Vectors
$(a + b) \cdot (a + b) = \sqrt{a^2 + b^2 + 2ab}$

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Trigonometric Identities
$\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$
$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$
$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$ ($A \pm B = (k \pm \frac{1}{2})\pi$)

Numerical Methods
Trapezium rule:
$\int_a^b f(x) dx \approx \frac{1}{2}h(y_0 + y_n) + 2(y_1 + y_2 + \dots + y_{n-1})h$
where $h = \frac{b-a}{n}$
Newton-Raphson method:
$f(x) = 0, x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$

Standard Deviation
$\sqrt{\frac{\sum(x_i - \bar{x})^2}{n}} = \sqrt{\frac{\sum x_i^2}{n} - \bar{x}^2}$ or $\sqrt{\frac{\sum(x_i - \bar{x})^2}{n-1}} = \sqrt{\frac{\sum x_i^2}{n-1} - \bar{x}^2}$

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

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:
$v = u + at$
$s = ut + \frac{1}{2}at^2$
$v^2 = u^2 + 2as$
$s = \frac{1}{2}(u+v)t$
Motion in two dimensions:
$v = u + at$
$s = ut + \frac{1}{2}at^2$
$v^2 = u^2 + 2as$
$s = \frac{1}{2}(u+v)t$

Differentiation	
Function	Derivative
$\tan bx$	$b \sec^2 bx$
$\sec x$	$\sec x \tan x$
$\cot x$	$-\operatorname{cosec}^2 x$
$\operatorname{cosec} x$	$-\operatorname{cosec} x \cot x$

First principles:
$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$

Quotient rule:
$\frac{d}{dx} \left(\frac{u}{v} \right) = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$

Integration
$\int \frac{1}{x^2} dx = \int x^{-2} dx = -x^{-1} + c = -\frac{1}{x} + c$
$\int \frac{1}{x^2} dx = \int x^{-2} dx = -\frac{1}{-1} x^{-1} + c = \frac{1}{x} + c$

Integration by parts:
$\int u \frac{dv}{dx} dx = uv - \int v \frac{du}{dx} dx$

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Ocr Maths A Level Spapers 2013: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Ocr Maths A Level Spapers 2013 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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