

## 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

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

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

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

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

## 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 =  $\frac{1}{2}ab \sin C$

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

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

$\csc \theta = \frac{1}{\sin \theta}$

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

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

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

$\csc^2 \theta \equiv 1 + \cot^2 \theta$

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

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

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

## Mechanics

weight =  $mg$

$F = pA$

$F = ma$

$v = \frac{dx}{dt}$        $a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$

$x = \int v \, dt$        $v = \int a \, dt$

## 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  $\theta$  (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:**  
 $\int f(g(x))g'(x) \, dx = f(g(x)) + c$

## Differentiation

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

**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  $Z \sim N(0, 1)$

## Vectors

$$|a + b + c| = \sqrt{a^2 + b^2 + c^2}$$

## OCR A Level Maths Formula Mat Formulae and Identities You Will be Given

## Trigonometric Identities

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

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

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B} \quad (A \pm B \neq (2n + \frac{1}{2})\pi)$$

## 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

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

## 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  $\theta$  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:**  
 $s = ut + \frac{1}{2}at^2$   
 $v = u + at$   
 $v^2 = u^2 + 2as$   
 $s = \frac{1}{2}(u+v)t$

**Motion in two dimensions:**  
 $\mathbf{v} = \mathbf{u} + \mathbf{a}t$   
 $s = ut + \frac{1}{2}at^2$   
 $s = vt - \frac{1}{2}at^2$   
 $s = \frac{1}{2}at^2 + v_0 t$

## Differentiation

Function	Derivative
$\tan x$	$\sec^2 x$
$\sec x$	$\sec x \tan x$
$\cot x$	$-\csc^2 x$
$\csc x$	$-\csc x \cot x$

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

**Quotient rule:**  
 $\frac{dy}{dx} = \frac{u \frac{dv}{dx} - v \frac{du}{dx}}{u^2}$

## Integration

$\int \frac{f'(x)}{f(x)} \, dx = \ln|f(x)| + c$   
 $\int f(x)g(x) \, dx = \frac{1}{n+1}f(x)g(x)^{n+1} + c$

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

# Ocr Maths A Level Spapers 2013

**Richard Parsons**



## **Ocr Maths A Level Spapers 2013:**

**Topics and Trends in Current Statistics Education Research** Gail Burrill, Dani Ben-Zvi, 2018-12-29 This book focuses on international research in statistics education providing a solid understanding of the challenges in learning statistics. It presents the teaching and learning of statistics in various contexts including designed settings for young children, students in formal schooling, tertiary level students and teacher professional development. The book describes research on what to teach and platforms for delivering content, curriculum strategies on how to teach for deep understanding and includes several chapters on developing conceptual understanding, pedagogy and technology, teacher knowledge and beliefs and the challenges teachers and students face when they solve statistical problems, reasoning and thinking. This new research in the field offers critical insights for college instructors, classroom teachers, curriculum designers, researchers in mathematics and statistics education as well as policy makers and newcomers to the field of statistics education. Statistics has become one of the key areas of study in the modern world of information and big data. The dramatic increase in demand for learning statistics in all disciplines is accompanied by tremendous growth in research in statistics education. Increasingly, countries are teaching more quantitative reasoning and statistics at lower and lower grade levels within mathematics, science and across many content areas. Research has revealed the many challenges in helping learners develop statistical literacy, reasoning and thinking and new curricula and technology tools show promise in facilitating the achievement of these desired outcomes.

**Cambridge International AS and A Level English Language Coursebook** Mike Gould, Marilyn Rankin, 2014-08-21 Comprehensive student friendly resources designed for teaching Cambridge International AS and A Level English Language syllabus 9093. The core aim of this Coursebook is to help students to develop and apply the key skills they need to achieve in AS and A Level English Language. They will build the skills needed for assessment through frequent activities. Divided into two distinct parts for AS and A Level studies, the book covers a wide range of reading skills such as understanding aspects of style, voice and tone. It also addresses the conventions of key kinds of writing and spoken language from scripted speeches to travel articles and looks at how they can capture these conventions in their own work.

**The Times Index**, 2013-06 Indexes the Times Sunday Times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement.

**Education under Siege** Mortimore, Peter, 2013-09-23 At a time when education is considered crucial to a country's economic success, recent UK governments have insisted their reforms are the only way to make England's system world class. Yet pupils are tested rather than educated, teachers bullied rather than trusted and parents cast as winners or losers in a gamble for school places. Education under siege considers the English education system as it is and as it might be. In a highly accessible style, Peter Mortimore, an author with wide experience of the education sector both in the UK and abroad, identifies the current system's strengths and weaknesses. He concludes that England has some of the best teachers in the world but one of the most

muddled systems Challenging the government's view that there is no alternative he proposes radical changes to help all schools become good schools They include a system of schools receiving a fair balance of pupils who learn easily and those who do not ensuring a more even spread of effective teachers as well as banning league tables outlawing selection opening up faith schools and integrating private schools into the state system In the final chapter he asks readers who share his concerns to demand that the politicians alter course The book will appeal to parents education students and teachers as well as everyone interested in the future education of our children *Bad Teacher* Jenny Crompton,2013-10-18 Covering all subjects from primary school to college this assembly of bloopers will leave you amused and worried for our schoolchildren all at the same time *Examination Results* Michael Matthewman,2013-06-17 At the beginning of each academic year schools are required to present their examination results to an audience of teaching staff governors and parents This A4 booklet and disc provides clear guidance to examinations officers on how to process analyse and record these results The pack is specifically designed to enable the examinations officer to process the results on a PC off site and encourages a cumulative approach to examination results in addition to the annual statutory requirements *AS-Level Maths OCR A Complete Revision and Practice* Richard Parsons,CGP Books,2011-03-01 AS Level Maths OCR A Complete Revision and Practice **OCR A Level Mathematics Year 2** Sophie Goldie,Susan Whitehouse,Val Hanrahan,Cath Moore,Jean-Paul Muscat,2018-06-04 Boost your students knowledge skills and understanding so that they can reason and apply mathematical techniques in solving problems with resources developed specifically for the OCR specification by subject experts and in conjunction with MEI Mathematics in Education and Industry Boosts students confidence approaching assessment with plenty of practice questions and skill focused exercises Build connections between topics with points of interest and things to notice such as links to real world examples and noticing patterns in the mathematics Ensure targeted development of problem solving proof and modelling with dedicated sections on these key areas Help students to overcome misconceptions and develop insight into problem solving with annotated worked examples Enhance individual understanding with discussion points designed for the classroom and end of chapter summaries of the key points Tackle the new statistics requirements with five dedicated statistics chapters and questions around the use of large data sets Address the use of technology in Mathematics with a variety of questions based around the use of spreadsheets graphing software and graphing calculators Provide clear paths of progression that combine pure and applied maths into a coherent whole Reinforce Year 1 content with short review chapters Year 2 only **New A-Level Maths for OCR: Year 1 & 2 Exam Practice Workbook** CGP BOOKS.,2017-10-20 *Maths* ,2021-12 **A Level Mathematics for OCR A Student Book 2 (Year 2)** Vesna Kadelburg,Ben Woolley,2018-01-25 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR A Level Mathematics specification for first teaching from 2017 this print Student Book covers the content for the second year of A Level It balances accessible exposition with a wealth of worked examples

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