

A2 Level: Core 3 Revision Course

Dates Available: 11.04.12

Cost: £120 (Book and pay by 28th February - £90)

Course Times: 0900 to 1630

Venue: St. John's Centre, Merrow

(Please note that this course will have a maximum of 8 students).

Board: Edexcel 9371 [UA024850 GCE in Mathematics issue 2 180510.pdf](#)

This course examines key topic areas and extensive use will be made of exam-based AS level questions to illustrate relevant principles. Revision notes and model answers will be provided where appropriate

COURSE CONTENT

Algebra and functions: Simplifying expressions; multiplying and dividing algebraic fractions; adding and subtracting algebraic fractions; Algebraic division; Functions and mappings; Range and domain; composite functions; Inverse functions; Modulus; Transformations of graphs.

Trigonometry: Functions and graphs of cosec, sec and cot; simplifying expressions' proving identities and solving equations using cosec, sec and cot; Using identities; using inverse trigonometrical functions and their graphs; using addition trigonometrical formulae; using double angle formulae; solving equations and proving identities using double angle formulae; using the form $a \cos \theta + b \sin \theta$ in solving trigonometrical problems; the factor formulae.

Exponentials and Logarithms: Exponential functions in the form $y = a^x$; graphs of exponential functions and modelling using $y = e^x$; using e^x and the inverse of the exponential function $\log_e x$.

Differentiation: Chain rule; differentiation of e^x and $\ln x$; differentiation of sin, cos and tan; product rule; quotient rule; differentiation of cosec, sec and cot; differentiating functions formed by combining trigonometrical, exponential, logarithmic and polynomial functions.

Numerical Methods: Finding approximate roots of $f(x) = 0$ graphically; Using iterative methods to find approximate roots of $f(x) = 0$.

Registration	0900 – 0915
Algebra and Functions	0915 – 10.30
Break	1030 – 1045
Trigonometry	1045 – 1215
Numerical methods	1215 – 1300
Lunch	1300 – 1330
Exponentials and Logarithms	1330 – 1415
Break	1415 – 1430
Differentiation	1430 – 1630

Application Form:

Course: A2 Level: Core 3 Revision Course

Student Details:

Student's Family Name: _____

Miss / Mr: _____

First Names: _____

Home Address: _____

Postcode: _____

Telephone: _____

Student's Mobile Number: _____

Date of Birth: _____

Student's School/College: _____

Parents/Guardian Details:

(Who must be available in event of an emergency during the course.)

Name: _____

Address: (If different from above)

Postcode: _____

E-mail: _____

Day Telephone: _____

Evening Telephone: _____

Conditions of Acceptance

1. Full course fees must be paid on registration. Late applications will be considered only if there are unfilled places on the course.
2. Amadou Education reserves the right to cancel any course at its discretion. Where a course is cancelled, students may obtain a full refund of fees. Fees are not refundable in any other circumstances.
3. Amadou Education reserves the right to dismiss any student whose conduct is unsatisfactory, at the discretion of the Principal, whose decision will be final.
4. Amadou Education shall not be liable for any loss or damage to the personal property of those attending the course unless caused by the negligence of Amadou its employees or agents.

Parental Approval

I accept all conditions as mentioned on above.

Signature of Parent/Guardian: _____

Dated: _____

How did you hear about the Amadou?

Please tick one of the below as appropriate

I enclose a cheque for £ _____ made payable to 'AMADOU' []

I have deposited £ _____ through BACS transfer []

BACS Transfer details are as follows

*Sort Code – 40-22-26
Account Number - 32786168*

Note – if making payment by BACS transfer you will be booked when payment is received and we will contact you to confirm receipt of payment.

Please send this completed form to:

The Administrator, Amadou, Hazelwood, Longmead, Guildford, Surrey GU1 2HN.