

## A2 Level: Core 3 Revision Course

**Dates Available:** 29<sup>th</sup> and 30<sup>th</sup> December 2011

**Cost:** £200

**Course Times:** 0900 to 1600

**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](#)

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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

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### 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  $f(x) = 0$ .

Times	0900 - 0915	0915 - 1015 1030 - 1200	1200 - 1300	1300 - 1430	1445 - 1600
Thursday	Registration	Algebra and functions	Lunch	Trigonometry	Consolidation Exam paper
Friday	Registration	Exponentials and Logarithms Numerical Methods	Lunch	Differentiation	Consolidation Exam paper

# 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?

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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.**