

## AS Level: Mechanics 1 Revision Course

**Dates Available:** 14.04.12

**Cost:** £120 (Book and pay by 28<sup>th</sup> 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](#)

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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

**Kinematics:** Constant acceleration equations; motion graphs

**Dynamics:** Newton's laws; friction and inclined plane; connected particles; momentum; impulse.

**Vectors:** Vectors to describe displacements; adding vectors and representing vectors using line segments; describing vectors using i, j notation; Solving problems using vectors; the velocity of a particle as a vector; solving problems involving velocity and time using vectors; using vectors to solve problems about forces

**Statics:** Solving problems about particles in equilibrium by resolving forces; knowing when to include additional forces, such as weight, tension, thrust, normal reaction and friction; Solving statics problems involving friction using the relationship  $F \leq \mu R$

**Moments:** The moment of a force acting on a body; the sum of the moments of a set of forces acting on a body; solving problems about bodies in equilibrium by equating clockwise and anticlockwise moments; solving problems about non-uniform bodies by finding or using the centre of mass.

Registration	0900 – 0915
<b>Kinematics</b>	0915 – 10.30
Break	1030 – 1045
<b>Dynamics</b>	1045 – 1215
<b>Vectors</b>	1215 – 1300
Lunch	1300 – 1330
<b>Statics</b>	1330 – 1415
Break	1415 – 1430
<b>Moments</b>	1430 – 1630

# Application Form:

**Course: AS Level: Mechanics 1 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.**

