



General Certificate of Education  
Advanced Subsidiary Examination  
June 2011

## Physics

## PHY3T/P11/TN

Unit 3 Investigative and Practical Skills in AS Physics

Investigative Skills Assignment (ISA) P

## Instructions to Supervisors

### Confidential

- These instructions are provided to enable centres to make appropriate arrangements for the Unit 3 ISA P test.
- For further details of the administration of the ISA and for information about these instructions, please see the document *Guidance Instructions for the Administration of Investigative Skills Assignment (ISA): GCE Physics*.

## ISA (P) Bouncing Ball Investigation

### Centre Instructions for the Investigation

In this ISA, candidates will investigate how high a table tennis ball bounces when dropped from different heights.

### Information for centres

Candidates should be told about one week before undertaking Stage 1 of the ISA that they will be investigating the energy transfers involved when a table tennis ball is dropped vertically and allowed to bounce on a horizontal surface.

Stage 2 of the ISA (the written test: Sections A and B) should take place as soon as possible after Stage 1.

### Apparatus

Centres should ensure that the apparatus provided can be used safely. Each candidate will need:

- a stand with a boss and a clamp. The clamp will need to be adjusted to different heights up to at least 60 cm above the bench.
- a metre ruler
- a small piece of Blu-Tack to hold the metre ruler behind the ball inside the open clamp and another to secure it to the bench
- a table tennis ball
- a set-square.

The candidates will be asked to assemble the apparatus as shown in the diagram and the photograph below.

