



General Certificate of Education
Advanced Level Examination
June 2010

Biology

BIO6T/Q10/TN

Unit 6T A2 Investigative Skills Assignment

Teachers' Notes

Confidential

A copy should be given immediately to the teacher(s) responsible for
GCE Biology

Teachers' Notes**CONFIDENTIAL**

These notes must be read in conjunction with *Instructions for the administration of Investigative Skills Assignment: GCE Biology* on the ISA disk and published on the AQA website.

The effect of body temperature of an invertebrate animal on its rate of movement

Candidates are required to measure the activity of woodlice or maggots at two different temperatures.

Materials

In addition to access to general laboratory equipment, each candidate needs

- at least 20 woodlice or maggots
- Petri dish with lid
- fine-tipped permanent marker pen
- large container to act as a water bath
- supply of water at 30 °C or equipment to enable candidates to achieve this
- stopwatch (or suitable alternative)
- 5 dry boiling tubes
- thermometer which will measure a range of 0 °C to 100 °C
- ruler
- plastic teaspoon, spatula or blunt forceps to move animals
- Students' Statistics Sheet (version 2), included in Task Sheet.

This task must be trialled.

One week before sitting Stage 1 of the ISA, teachers may give their candidates the following information

You will be investigating the rate of movement of woodlice/maggots.

In this investigation, teachers must not give candidates the following information

- how many animals to be used for each temperature
- what temperature readings to take during the investigation
- other factors that should be controlled or monitored