

IAL Unit 3

The question paper will assess the following abilities:

Independent thinking in a practical context

- Solve problems set in a practical context.

Use and application of scientific methods and practices

- Apply scientific knowledge to practical contexts.
- Identify and state how to control variables to improve experimental validity.
- Present data in appropriate ways.
- Evaluate results and draw conclusions.
- Appreciate measurement uncertainties and errors.
- Comment on the method for an experiment.

Numeracy and the application of mathematical concepts in a practical context

- Plot and interpret graphs.
- Process and analyse data using appropriate mathematical skills.
- Use appropriate numbers of significant figures based on the experimental data.
- Consider the accuracy and precision of data.

Use of apparatus and equipment

- Recognise a range of laboratory apparatus and select appropriate apparatus for a particular scenario.
- Understand how to use a range of apparatus and techniques appropriate to the knowledge and understanding included in this specification.
- Consider the range and resolution of apparatus.
- Identify health and safety issues and discuss how these may be dealt with.