
Sample Assignment: Unit 8 Investigating the Scientist's Work

ASSIGNMENT BRIEF

Unit Name:	Investigating the Scientist's Work	Unit Number:	Unit 8
Assignment Title:	Investigating Insulating Materials	Assignment Number:	8.2
Date Set:		Due Date:	See plan
Assessment Objective(s): AO1, AO2, AO3			
Brief: <p>Effective use of insulation materials helps consumers save money and conserve energy. Companies invest in research into insulating materials to try and produce high quality, value for money products. You are required to plan and carry out an investigation on the effectiveness of a number of insulation materials.</p> <p>The investigation will involve:</p> <ul style="list-style-type: none">• Research to obtain knowledge about the topic• Practical work to obtain data to confirm or disprove your original ideas• The production of a scientific report. <p>The practical work must be carried out safely by you in the laboratories that you usually work in. If possible, several practical techniques should be used in the investigation.</p>			
Task: <p>Planning (AO1)</p> <ul style="list-style-type: none">• Produce a plan for your investigation into the insulation properties of a number of different materials. You need to include your aims and objectives, full details of experimental work and the guidelines you have to work to. (5m)• Record evidence of any research you carry out with details of sources used. Give details showing checks for the validity of the information chosen. (5 m)			

Evidence of implementation of your plan (AO3)

- Carry out safely all the experimental work detailed in your plan. **(6 m)**
- Complete a record to show your plan has been completed with evidence of any changes or modifications recorded and carried out. **(5 m)**
- Write a scientific report on your investigation include what you have found out. Show how this links to the results you have made and evaluate the work you completed. **(15 m)**

Presentation and processing of data (AO2)

- Record the data from your practical work in a suitable form. **(4 m)**
- Process your data so it can be easily understood. **(5 m)**
- Carry out and record any calculations needed to help interpret your data. **(5 m)**

Max marks possible for this task: 50