



Lesson 6: Research methods 7.1 Experimental method

Learning objective	To gain knowledge and understanding of experimental methods.
Lesson objectives	By the end of the lesson, learners will be able to: <ul style="list-style-type: none"> • Apply knowledge of ethical issues to experiments • Apply knowledge of experiments to novel scenarios • Plan and conduct a small-scale practical experiment
Vocabulary	n/a
Previous learning	Learners have studied all of the syllabus content for sub-topic 7.1 Experimental method.

Plan

Activities	Resources
Beginning (5 mins)	
Middle (50 mins)	
End (5 mins)	

Learners complete the starter activity with partners, checking understanding of experiments and experimental design.

- Explain that learners will be in small groups to plan and conduct a small scale experiment.
- Discuss the task with learners and support them in groups to plan an ethical, feasible experiment for 10-15 minutes. You can use the classroom or another supervised environment.
- After approving the learners' plans, they can conduct the experiment.
- Lead a whole class discussion on how the experiments went.

Learners can check their understanding by identifying two possible extraneous variables and suggest ways to control them.

Reflection and evaluation

Reflection:

Summary evaluation:

What two things went really well? (Consider both teaching and learning.)

- 1.
- 2.

What two things would have improved the lesson? (Consider both teaching and learning.)

- 1.
- 2.

What have I learned from this lesson about the class or individuals that will inform my next lesson?

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