

Plan and conduct repeatable investigations to answer questions, including, as...

plan and conduct repeatable investigations to answer questions, including, as appropriate, deciding the variables to be changed, measured and controlled in fair tests; describing potential risks; planning for the safe use of equipment and materials; and identifying required permissions to conduct investigations on Country/Place

Learning intention

- plan and conduct repeatable investigations to answer questions, including, as appropriate, deciding the variables to be changed, measured and controlled in fair...

Teach and model

- considering different ways to approach investigations, such as researching, using trial and error, experimental testing, field observations, using digital tools to record...
- planning and recording the method to be used in an investigation so that it could be repeated by someone else
- making decisions on the variables to be changed, measured and controlled in fair tests, such as measuring the length and size of a shadow formed by different light...

Check understanding

- Explain the main idea in plan and conduct repeatable investigations to answer questions, including, as... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.