

Analyse methods, conclusions and claims for assumptions, possible sources of...

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Learning intention

- analyse methods, conclusions and claims for assumptions, possible sources of error, conflicting evidence and unanswered questions

Teach and model

- identifying and considering indicators of the quality of the data when analysing results to identify unanswered questions
- evaluating the method used in an investigation, identifying assumptions made about variables that should be controlled, suggesting ways it could be improved and...
- analysing conclusions and claims to identify facts or premises that are taken for granted to be true, and considering their relevance to conclusions

Check understanding

- Explain the main idea in analyse methods, conclusions and claims for assumptions, possible sources of... 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.