

Construct arguments based on analysis of a variety of evidence...

construct arguments based on analysis of a variety of evidence to support conclusions or evaluate claims, and consider any ethical issues and cultural protocols associated with accessing, using or citing secondary data or information

Learning intention

- construct arguments based on analysis of a variety of evidence to support conclusions or evaluate claims, and consider any ethical issues and cultural protocols associated with...

Teach and model

- constructing a scientific argument showing how a range of evidence supports a claim relating to the age of the universe
- engaging in evidence-based debates about the role of human activity in global climate change
- reasoning from a range of evidence to support or rebut claims made in news reports on scientific research

Check understanding

- Explain the main idea in construct arguments based on analysis of a variety of evidence... 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.