

Analyse and connect a variety of data and information to...

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Learning intention

- analyse and connect a variety of data and information to identify and explain patterns, trends, relationships and anomalies

Teach and model

- discussing the validity of the data when extrapolating from a graph
- analysing representations of data from atmospheric monitoring and ice cores to identify patterns and trends in the amount of carbon dioxide in the atmosphere...
- comparing published data with experimental data such as the sound-insulating levels of different materials and identifying any trends or patterns in differences, such as...

Check understanding

- Explain the main idea in analyse and connect a variety of data and information to... 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.