

Investigate techniques for data collection including census, sampling, experiment and...

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Learning intention

- investigate techniques for data collection including census, sampling, experiment and observation, and explain the practicalities and implications of obtaining data through...

Teach and model

- identifying situations where data can be collected by census and those where a sample is appropriate
- investigating the practicalities and implications of obtaining data through sampling, using a variety of investigative processes; for example, investigating...
- discussing how observations, experiments and sampling methods can be impacted by bias; for example, recognising that a sampling bias occurs when certain members...

Check understanding

- Explain the main idea in investigate techniques for data collection including census, sampling, experiment and... 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.