

Analyse how different sampling methods can affect the results of...

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Learning intention

- analyse how different sampling methods can affect the results of surveys and how choice of representation can be used to support a particular point of view

Teach and model

- investigating and analysing different visualisations of data such as infographics found in the media and commenting on the strengths, weaknesses and possible biases...
- discussing the impact of decreased landline usage or an increased aversion to answering calls from unknown numbers on survey data

Check understanding

- Explain the main idea in analyse how different sampling methods can affect the results 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.