

Analyse claims, inferences and conclusions of statistical reports in the...

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Learning intention

- analyse claims, inferences and conclusions of statistical reports in the media, including ethical considerations and identification of potential sources of bias

Teach and model

- identifying potentially misleading data representations in the media such as graphs with broken axes and scales that do not start at zero or are nonlinear; recognising when...
- investigating the source and size of the sample from which the data was collected and deciding whether the sample is appropriately representative of the...
- investigating population rates and discussing potential ethical considerations when presenting statistical data involving infection rates, and the number of cases per head of...

Check understanding

- Explain the main idea in analyse claims, inferences and conclusions of statistical reports in the... 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.