

Conduct guided statistical investigations involving the collection, representation and interpretation...

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Learning intention

- conduct guided statistical investigations involving the collection, representation and interpretation of data for categorical and discrete numerical variables with respect to...

Teach and model

- creating a poster, flowchart or infographic that describes the process of statistical investigation, and the components, the tools and the types of data that can be collected...
- collaboratively working through a whole class investigation by choosing a question of interest, using an efficient collection method and recording collected data; interpreting...
- planning and carrying out investigations that involve collecting data; for example, narrowing the focus of a question such as, "Which is the most popular breakfast..."

Check understanding

- Explain the main idea in conduct guided statistical investigations involving the collection, representation and interpretation... 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.