

# Plan and conduct statistical investigations by posing questions or identifying...

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## Learning intention

- plan and conduct statistical investigations by posing questions or identifying a problem and collecting relevant data; choose appropriate displays and interpret the data...

## Teach and model

- posing questions about insect diversity in the playground, collecting data by taping a one-metre-square piece of paper to the playground, and observing the type and...
- posing a question or identifying a problem of interest, collecting, interpreting and analysing the data and discussing if the data generated provides the information...
- developing survey questions that are objective, without opinion and have a balanced set of answer choices without bias

## Check understanding

- Explain the main idea in plan and conduct statistical investigations by posing questions or identifying... 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.