

Construct scatterplots and comment on the association between the 2...

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Learning intention

- construct scatterplots and comment on the association between the 2 numerical variables in terms of strength, direction and linearity

Teach and model

- discussing the difference between association and cause and effect, and relating this to situations such as health, diversity of species and climate control
- using statistical evidence to make, justify and critique claims about association between variables, such as in contexts of climate change, migration, online shopping...
- informally using a line of good fit by eye to discuss reliability of any predictions

Check understanding

- Explain the main idea in construct scatterplots and comment on the association between the 2... 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.