

Select and construct appropriate representations, including tables, graphs, descriptive statistics...

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Learning intention

- select and construct appropriate representations, including tables, graphs, descriptive statistics, models and mathematical relationships, to organise and...

Teach and model

- using spreadsheet software to present data in tabular and graphical forms
- identifying which sample properties, such as mean, median and range, are the most appropriate to use to make generalisations
- applying algorithms to measure carbon storage of different vegetation types

Check understanding

- Explain the main idea in select and construct appropriate representations, including tables, graphs, descriptive statistics... 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.