

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

select and construct appropriate representations, including tables, graphs, descriptive statistics, models and mathematical relationships, to organise and process data and information

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 carry out mathematical analyses of data
- describing sample properties such as mean, median, range and large gaps visible on a graph to make generalisations, acknowledging uncertainties and the effects...
- considering how data or information can be organised and represented to effectively communicate support for conclusions, including through visual or interactive...

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.