

Construct and use representations, including tables, simple column graphs and...

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Learning intention

- construct and use representations, including tables, simple column graphs and visual or physical models, to organise data and information, show simple relationships and...

Teach and model

- using virtual or role-play food chain simulations to explore effects of changing numbers of producers or consumers in a habitat
- using maps to locate water sources in the local area, or constructing maps to show sites of water wastage in the school grounds
- constructing column graphs to compare numbers of objects made of particular materials or distances moved by objects experiencing frictional forces

Check understanding

- Explain the main idea in construct and use representations, including tables, simple column graphs and... 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.