

Questions to explore observed patterns and relationships and make predictions...

pose questions to explore observed patterns and relationships and make predictions based on observations

Learning intention

- pose questions to explore observed patterns and relationships and make predictions based on observations

Teach and model

- posing questions about the relationship between soil characteristics and the growth of particular plants, such as: 'Will beans grow best in sandy, loamy or clay soils?'
- comparing simple maps of Australian agriculture and soil types and posing questions about observed patterns, such as: 'Does wheat grow in particular soils?'
- posing questions about substances that are difficult to classify as a solid or liquid, such as toothpaste, slime or hair gel

Check understanding

- Explain the main idea in questions to explore observed patterns and relationships and make predictions... 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.