

Investigable questions to identify patterns and test relationships and make...

pose investigable questions to identify patterns and test relationships and make reasoned predictions

Learning intention

- pose investigable questions to identify patterns and test relationships and make reasoned predictions

Teach and model

- posing investigable questions to identify patterns, such as: 'What type of material is the best conductor and what is the best insulator?'
- posing investigable questions to test relationships, such as: 'Will more salt dissolve in warm water than in cold water?'
- discussing and refining questions to enable scientific investigation

Check understanding

- Explain the main idea in investigable questions to identify patterns and test relationships and make... 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.