

Provided scaffolds to plan and conduct investigations to answer questions...

use provided scaffolds to plan and conduct investigations to answer questions or test predictions, including identifying the elements of fair tests, and considering the safe use of materials and equipment

Learning intention

- use provided scaffolds to plan and conduct investigations to answer questions or test predictions, including identifying the elements of fair tests, and considering the...

Teach and model

- using an investigation scaffold to design a fair test to identify which shoe provides the greatest or least friction or which materials are attracted to a magnet
- predicting the interactions of forces in a game or toy design, and building and testing a prototype
- predicting effects of changing numbers of producers or consumers, and using a virtual or roleplay food chain simulation to explore possible outcomes by running the simulation...

Check understanding

- Explain the main idea in provided scaffolds to plan and conduct investigations to answer questions... 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.