

Examine why advances in science are often the result of...

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Learning intention

- examine why advances in science are often the result of collaboration or build on the work of others

Teach and model

- exploring how international scientific collaboration can answer complex questions about the abiotic factors that affect the growth and survival of living things in...
- examining why ecologists collaborate with engineers and computer scientists to develop remote sensing techniques, identify patterns in habitat change and make...
- constructing a timeline to show how contributions and collaboration of scientists, mathematicians and astronomers from many countries have advanced our ideas about...

Check understanding

- Explain the main idea in examine why advances in science are often the result of... 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.