

Investigate how cultural perspectives and world views influence the development...

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Learning intention

- investigate how cultural perspectives and world views influence the development of scientific knowledge

Teach and model

- investigating how world views about the role of women lead to women scientists being placed in subordinate roles and 'written out' of history, a phenomenon known as the...
- researching how cultural building techniques such as houses built of bamboo led to the development of structures and materials better able to withstand the effects of...
- investigating how collaboration between Swami Vivekananda and Nikola Tesla, who held different world views, led to an exploration of the relationship between mass...

Check understanding

- Explain the main idea in investigate how cultural perspectives and world views influence the development... 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.