

Investigate how scientific knowledge is used by individuals and communities...

investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions

Learning intention

- investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions

Teach and model

- considering how decisions are made to farm particular crops or animals depending on local habitats, such as considering their ability to withstand drought or cold weather
- examining how communities use knowledge of erosion processes to design landscape features that reduce erosion in fragile environments
- researching the impacts of light pollution and exploring how communities have used scientific knowledge to reduce light pollution, such as through the use of covered...

Check understanding

- Explain the main idea in investigate how scientific knowledge is used by individuals and communities... 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.