

Consider how people use scientific explanations to meet a need...

consider how people use scientific explanations to meet a need or solve a problem

Learning intention

- consider how people use scientific explanations to meet a need or solve a problem

Teach and model

- exploring the history of manure and compost use in agriculture and how composting can help improve soil condition and plant growth
- investigating how understanding of life cycles of insect pests such as fruit flies led to effective control strategies
- investigating why salt, was so important to people's diets, food preservation and medicine in ancient times that it was known as 'white gold'

Check understanding

- Explain the main idea in consider how people use scientific explanations to meet a need... 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.