

# Observations with predictions and others' observations, consider if investigations are...

compare observations with predictions and others' observations, consider if investigations are fair and identify further questions with guidance

## Learning intention

- compare observations with predictions and others' observations, consider if investigations are fair and identify further questions with guidance

## Teach and model

- comparing their observations of changing shadow length across the day with their predictions and the patterns observed by others
- comparing observations of sounds with those of others and considering if we all sense sound in the same way
- proposing ways to ensure that the same sound is produced in an investigation in order to keep the investigation fair

## Check understanding

- Explain the main idea in observations with predictions and others' observations, consider if investigations are... 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.