

Sources of light, recognise that light travels in a straight...

identify sources of light, recognise that light travels in a straight path and describe how shadows are formed and light can be reflected and refracted

Learning intention

- identify sources of light, recognise that light travels in a straight path and describe how shadows are formed and light can be reflected and refracted

Teach and model

- distinguishing between natural (such as glow worms, the sun and stars) and artificial (such as light bulbs or candles) sources of light
- investigating the shadows that are formed when light is completely or partially blocked by an object, such as when using a sundial or shadow puppets
- drawing ray diagrams to show how the path of light from a source reflects off surfaces into the eye

Check understanding

- Explain the main idea in sources of light, recognise that light travels in a straight... 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.