

The movement of Earth and other planets relative to the...

describe the movement of Earth and other planets relative to the sun and model how Earth's tilt, rotation on its axis and revolution around the sun relate to cyclic observable phenomena, including variable day and night length

Learning intention

- describe the movement of Earth and other planets relative to the sun and model how Earth's tilt, rotation on its axis and revolution around the sun relate to cyclic observable...

Teach and model

- exploring simulations of the solar system such as a pocket solar system to appreciate the distances and relationships between the sun and planets
- recognising the role of gravity in keeping the planets in orbit around the sun
- using 3-dimensional models or role-play to model how Earth's rotation on its axis causes day and night

Check understanding

- Explain the main idea in the movement of earth and other planets relative to the... 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.