

The observable properties of soils, rocks and minerals and investigate...

compare the observable properties of soils, rocks and minerals and investigate why they are important Earth resources

Learning intention

- compare the observable properties of soils, rocks and minerals and investigate why they are important Earth resources

Teach and model

- examining different soils from local areas and using magnifying glasses to observe their components, such as pebbles, sand or plant matter as well as living things such as...
- exploring the school grounds or a local area and observing or collecting different types of rocks and describing similarities or differences such as texture, colour, grain or...
- recognising that minerals are the building blocks of rocks and that the different characteristics of rocks depend on the minerals they are made up of

Check understanding

- Explain the main idea in the observable properties of soils, rocks and minerals and investigate... 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.