

The theory of evolution by natural selection to explain past...

use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory

Learning intention

- use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory

Teach and model

- outlining processes involved in natural selection including variation, isolation and selection
- examining biodiversity as a function of evolution
- analysing evidence for the theory of evolution by natural selection including the fossil record, chemical and anatomical similarities, and geographical distribution of...

Check understanding

- Explain the main idea in the theory of evolution by natural selection to explain past... 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.