

The role of body systems in regulating and coordinating the...

compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism

Learning intention

- compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism

Teach and model

- exploring the body's observable responses to external stimuli (such as changes in light or temperature, or presence of danger or pathogens) or internal stimuli (such as...)
- using models, flow diagrams and virtual simulations to explore and represent the relationships between body systems that are necessary to coordinate a response to...
- comparing the role and function of electrical impulses and hormones in the body's responses to external stimuli

Check understanding

- Explain the main idea in the role of body systems in regulating and coordinating 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.