

General Biology - Course Study Sheet

Course: General Biology Cluster: Natural and Physical Sciences

Introduces evolution, cells, genetics, metabolism, organismal systems, ecology, and scientific inquiry.

Five-module course map

Module	Active evidence to produce
1. evolution	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. cell structure and function	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. energy and metabolism	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. genetics and information	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. ecology and systems	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

form a testable question, identify variables, connect mechanism to evidence, analyze data, and distinguish result from inference

Representative application

Explain how a change in cell function can affect an organism while identifying evidence at multiple biological scales.

Weekly study cycle

1. Preview the objective and write two questions. 2. Attend or engage and capture decisions rather than every sentence. 3. Reconstruct the main idea within 24 hours. 4. Complete independent practice. 5. Analyze the first unsupported move on each error. 6. Use feedback. 7. Schedule a delayed mixed recheck.

Self-check before moving on

Can you explain the idea without notes, complete a fresh task, detect a near-miss, verify the result, and state a limitation? Watch especially for: memorizing vocabulary as isolated facts or treating correlation, adaptation, and purpose as interchangeable explanations.

What to save

a biological explanation with mechanism, evidence, scale connections, and limitations

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