

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:

February 19 - 23, 2024

Time and Period:

2:32 - 3:25 PM, Seventh Period

Performance Standard:

HS-LS4-4

Analyze the change in proportion of organisms with and without specific adaptations using Hardy-Weinberg equilibrium or another mathematical tool.

HS-LS4-3

Use mathematical models to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.

HS-LS4-2

Construct an explanation based on evidence that the process of biological evolution primarily results from four factors: (1) the potential for a species to increase in number, (2) the heritable genetic variation of individuals in a species due to mutation and sexual reproduction, (3) competition for limited resources, and (4) the proliferation of those organisms that are better able to survive and reproduce in the environment.

HS-LS24-1

Apply multiple lines of empirical evidence to support the biological evolution of a specific or an unknown species (i.e., BLAST sequencing, anatomical structure).

HS-LS2-8

Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.

Monday, February 26

Topic	PROJECT: The Island Biogeography (Completion and Mock Presentation)
Objectives	Use representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.
Bell Ringer	What factors affect the increase of biodiversity?
Procedure / Instructional Delivery	Guided Practice, Use of Simulation, Scaffolding

Assessment	PROJECT: The Island Biogeography (Completion and Mock Presentation)
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Tuesday, February 27

Topic	Darwin's Observations, pp. 290 and 291
Objectives	Identify personal experiences that contributed to Darwin's thinking about evolution.
Bell Ringer	Define <i>Adaptation</i> and give an example of an adaptation within species.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Darwin's Observations, pp. 290 and 291

Wednesday, February 28

Topic	Theory of Natural Selection, pp. 292 - 294 Presentation
Objectives	Outline Darwin's theory of evolution by natural selection.
Bell Ringer	Define <i>Artificial Selection</i> and <i>Natural Selection</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Theory of Natural Selection, pp. 292 - 294

Thursday, February 29

Topic	Principles of Natural Selection, pp. 295 - 297
Objectives	Explain how natural selection leads to the rise of beneficial traits
Bell Ringer	Define <i>Artificial Selection</i> and <i>Natural Selection</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Principles of Natural Selection, pp. 295 - 297

Friday, March 1

NO SCHOOL

