

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:
 March 18 - 22, 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, March 18

Topic	Speciation Through Isolation, pp. 332 - 334
Objectives	Describe the role of isolation of a population in speciation.
Bell Ringer	What are the 5 ways species can become isolated and form new species?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	Speciation Through Isolation, pp. 332 - 334
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Tuesday, March 19	
Topic	Patterns of Evolution, pp. 335 - 337
Objectives	Identify two definitions of species used in evolutionary theory.
Bell Ringer	Differentiate between <i>Convergent and Divergent Evolution</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Patterns of Evolution, pp. 335 - 337 QUIZ

Wednesday, March 20	
Topic	Continuation: Patterns of Evolution, pp. 338 - 341
Objectives	Relate extinction to changes that occur in the numbers and types of species over time
Bell Ringer	Define <i>Punctuated Equilibrium</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Continuation: Patterns of Evolution, pp. 338 - 341

Thursday, March 21	
Topic	Review Quiz The Linnaean System of Classification, 532 - 535
Objectives	Explain why biologists have systems for naming and grouping organisms.
Bell Ringer	Define <i>taxonomy</i> and use it in a sentence.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Review Quiz The Linnaean System of Classification, 532 - 535

Friday, March 22

Topic	UNIT TEST Classification Based on Evolutionary Relationships, pp. 528 - 542
Objectives	Describe method of cladistics.
Bell Ringer	Define <i>phylogeny</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	UNIT TEST Classification Based on Evolutionary Relationships, pp. 528 - 542