

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:
 March 25 - 29, 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 25

Topic	Classification Based on Evolutionary Relationships, pp. 538 - 542
Objectives	Describe method of cladistics.
Bell Ringer	Define <i>cladograms</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	The Linnaean System of Classification
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Tuesday, March 26	
Topic	Molecular Clocks, pp. 544 - 546
Objectives	Determine when a species broke off from a parent species.
Bell Ringer	Define <i>molecular clocks</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Linking Classification & Phylogeny

Wednesday, March 27	
Topic	QUIZ Review for State Tests
Objectives	Determine when a species broke off from a parent species.
Bell Ringer	Differentiate between <i>Mitochondrial DNA</i> and <i>Ribosomal RNA</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	QUIZ

Thursday, March 28	
NO SCHOOL	

Friday, March 29	
NO SCHOOL	

