Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan	
Dates: March 11 - 15, 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 11	
Topic	Natural Selection in Populations, pp. 318 - 321
Objectives	Explain how natural selection results in populations that are well adapted for their environments.
Bell Ringer	Define ***Microevolution and Stabilizing Selection***
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	Natural Selection in Populations, pp. 318 - 321

Tuesday, March 12	
Topic	Other Mechanisms of Evolution, pp. 323 - 327
Objectives	Describe different mechanisms of evolution.
Bell Ringer	Define ***Bottleneck Effect and Founder Effect***
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Other Mechanisms of Evolution, pp. 323 - 327

Wednesday, March 13	
Topic	Hardy-Weinberg Equilibrium pp. 328 - 332
Objectives	State the Hardy-Weinberg principle.
Bell Ringer	What are five factors that can lead to evolution?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Hardy-Weinberg Equilibrium pp. 328 - 332

Thursday, March 14	
Topic	Speciation Through Isolation, pp. 332 - 334 QUIZ
Objectives	Describe the role of isolation of a population in speciation.
Bell Ringer	Differentiate between convergent and divergent evolution.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Speciation Through Isolation, pp. 332 - 334

Friday, March 15
NO SCHOOL