Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan	
Dates: January 15 - 19, 2023	**Time and Period:** 2:32 - 3:25 PM, Seventh Period

Performance Standard:

HS-LS2-1
Use mathematical and/or computational models to support explanations of factors that affect carrying capacity of ecosystems at different scales.

HS-LS2-2
Use evidence from mathematical representations to explain factors that affect population dynamics and biodiversity.

HS-LS2-3
Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.

HS-LS2-4
Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem.

HS-LS2-6
Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions but changing conditions may result in a new ecosystem.

Monday, January 15	
Topic	Food Chains and Food Webs, pp. 400 - 403
Objectives	Describe how energy flows in an ecosystem.
Bell Ringer	Give two examples of species that are generalists and specialists in a food chain.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Food Chains and Food Webs, pp. 400 - 403

Tuesday, January 16	
Topic	Cycling of Matter: Hydrologic, Oxygen, Carbon Cycles, pp. 404 - 410
Objectives	Explain how carbon and oxygen are cycled through an ecosystem.
Bell Ringer	What are the five biogeochemical cycles?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Presentation Task
Assessment	Cycling of Matter, pp. 404 - 410

Wednesday, January 17	
Topic	Cycling of Matter: Nitrogen and Phosphorus Cycles, pp. 404 - 410
Objectives	Explain why it is important that nitrogen and phosphorus be cycled through an ecosystem.
Bell Ringer	How is phosphorus cycled through an ecosystem?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Presentation Task
Assessment	Cycling of Matter, pp. 404 - 410

Thursday, January 18	
Topic	Review Quiz Pyramid Models, pp. 411 - 413
Objectives	Explain why only 10% of energy is transferred from one trophic level to the next
Bell Ringer	Define ***biomass.***
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Review Quiz Pyramid Models, pp. 411 - 413

Friday, January 19	
Topic	Quiz Habitat and Niche, pp. 420 and 421

Objectives	Compare niche and habitat in a given ecosystem.
Bell Ringer	Define ecological niche and describe a lion's ecological niche.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Quiz Habitat and Niche, pp. 420 and 421