

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:

April 29 - May 3, 2024

Time and Period:

2:32 - 3:25 PM, Seventh Period

Performance Standard:

HS-LS3-1

Construct an explanation to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.

HS-LS3-2

Make and defend a claim based on evidence that inheritable genetic variations result from various factors.

Monday, April 29

Topic	(Continuation) Culturing Bacteria - Laboratory Activity
Objectives	Use a plasmid vector to transform bacteria with genes for Green Fluorescent Protein (GFP) and antibiotic resistance in a controlled experiment.
Bell Ringer	What are the advantages and disadvantages of using GMO?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Bacterial Transformation Worksheet

Tuesday, April 30

Topic	PROJECT: Solving a Crime (Work Period)
Objectives	Solve the mystery case file based on your understanding of gel electrophoresis, DNA sequencing, and polymerase chain reaction
Bell Ringer	What is the role of DNA technology in solving crimes?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	PROJECT: Solving a Crime Continuation

Wednesday, May 1

Topic	PROJECT: Solving a Crime (Continuation)
Objectives	Solve the mystery case file based on your understanding of gel electrophoresis, DNA sequencing, and polymerase chain reaction
Bell Ringer	Which DNA technologies were used to solve the crime?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	PROJECT: Solving a Crime Continuation

Thursday, May 2

Topic	Other Mechanisms of Evolution, pp. 323 - 327 (Review)
Objectives	Describe different mechanisms of evolution.
Bell Ringer	Differentiate between <i>Bottleneck Effect and Founder Effect</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Other Mechanisms of Evolution, pp. 323 - 327

Friday, May 3

FIELDTRIP