

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:

November 13 - 17, 2023

Time and Period:

2:32 - 3:25 PM, Seventh Period

Performance Standard:

HS-LS1-1

Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins which carry out the essential functions of life through systems of specialized cells.

HS-LS2-8

Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.

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.

HS-LS3-3

Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.

Monday, November 13

Topic	Quiz Human Genetics and Pedigree, pp. 204 - 206
Objectives	Explain inheritance and dominance relationships by analyzing pedigrees.
Bell Ringer	Define <i>pedigree</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet: Pedigree Quiz

Tuesday, November 14

Topic	Interpreting Pedigree Charts, pp. 206 - 209
Objectives	Model a pedigree when given family genotype and phenotype data.
Bell Ringer	Define <i>karyotypes</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet: Pedigree Charts

Wednesday, November 15

Topic	Unit Project - Work Period, pp. 205
Objectives	Assemble linkage maps from map distance information.
Bell Ringer	Define <i>carrier</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Unit Project Worksheet

Thursday, November 16

Topic	Unit Project - Work Period
Objectives	Contrast the inheritance of traits that are controlled by independent genes and by linked genes.
Bell Ringer	Compare the <i>x and y chromosomes</i> in terms of size and the number of the genes present.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Unit Project Worksheet

Friday, November 17

Topic	Unit Project - Work Period
Objectives	Identify the genetic basis of diseases or traits using genetic linkage.
Bell Ringer	Define <i>linkage map</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Unit Project Worksheet and Presentation