

Edmore Public School
706 Main St, Edmore, ND 58330

Physical Science Lesson Plan

Dates:
April 22 - 26, 2024

Time and Period:
10:30 - 11:22 AM, Third Period

Performance Standard:

HS-PS3-1

Create a mathematical model to calculate the change in the energy of one component in a system when the change in energy of the other component(s) and energy flows in and out of the system are known.

HS-PS3-2

Develop and use models to illustrate that energy is associated with motion and relative position of particles (objects).

HS-PS3-3

Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy

Monday, April 22

Topic	Lenses and Images, pp. 574 and 575
Objectives	Observe images formed by a convex lens.
Bell Ringer	Draw <i>convex and concave lenses</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Completion of Lab Activity: Lenses and Images, pp. 574 and 575

Tuesday, April 23

Topic	Practice: Ray Diagram
Objectives	Determine the location, size, orientation, and type of image that is formed by the concave mirror.
Bell Ringer	What would be the LOST of the image formed by a concave mirror/lens?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	Practice: Ray Diagram
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Wednesday, April 24	
Topic	PROJECT: Underwater Apple Light (Testing and PreLab)
Objectives	Use mathematical representations to support a claim regarding relationships among the frequency, wavelength, and speed of waves traveling in various media.
Bell Ringer	What is the speed of light when in the following media: air, water, and glass?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Underwater Apple Light Worksheet

Thursday, April 25	
Topic	PROJECT: Underwater Apple Light (Testing)
Objectives	Use mathematical representations to support a claim regarding relationships among the frequency, wavelength, and speed of waves traveling in various media.
Bell Ringer	What is the pattern that you see between wavelength and frequency of light between the three media?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Underwater Apple Light Worksheet

Friday, April 26	
Topic	PROJECT: Underwater Apple Light (Making of Presentation)
Objectives	Use mathematical representations to support a claim regarding relationships among the frequency, wavelength, and speed of waves traveling in various media.
Bell Ringer	Based on your analysis of the phenomenon of the underwater apple, what wave property determines the color of light?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	PROJECT: Underwater Apple Light (Presentation Making)
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