

Edmore Public School
706 Main St, Edmore, ND 58330

Physical Science Lesson Plan

Dates:

September 11 - 15, 2023

Time and Period:

10:30 - 11:22 AM, Third Period

Performance Standard:

HS-PS1-1

Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms.

HS-PS1-2

Construct an explanation for the outcome of a simple chemical reaction based on the outermost electron states of atoms, trends in the periodic table, and knowledge of the patterns of chemical properties.

Monday, September 11

Topic	Changes of State, pp. 84-88
Objectives	Identify and describe the different processes involved in changing the state of matter.
Bell Ringer	What is the law of conservation of energy?
Procedure / Instructional Delivery	Discussion, Inquiry Laboratory Activity: Boiling Water
Assessment	Inquiry Lab, pp. 86 Section 2 Review pp. 88

Tuesday, September 12

Topic	Fluids, pp. 89-93
Objectives	Explain how fluids exert pressure.
Bell Ringer	Define <i>buoyant force</i> .
Procedure / Instructional Delivery	Discussion, Inquiry Laboratory Activity: Density and Shape, Post-Lab Discussion
Assessment	Inquiry Lab, pp. 91 Section 3 Review pp. 94

Wednesday, September 13	
Topic	Review: Fluids 3 The Development of Atomic Theory, pp. 110-118
Objectives	State the contribution of Dalton, Thomson, and Rutherford in the development of atomic theory.
Bell Ringer	Define <i>electrons</i> .
Procedure / Instructional Delivery	Discussion, Quicklab: Evidence for Atoms, Post-Lab Discussion
Assessment	Inquiry Lab, pp. 114 Section 1 Review, pp. 118

Thursday, September 14	
Topic	The Structure of Atoms, pp. 119 - 127
Objectives	State the difference between proton, neutron and electron.
Bell Ringer	Define <i>atomic number</i> .
Procedure / Instructional Delivery	Discussion and Guided Practice
Assessment	Structure of Atoms Worksheet Section 2 Review nos. 1-8, pp. 127

Friday, September 15	
Topic	Isotopes, pp. 121 - 123
Objectives	Describe isotopes and give examples.
Bell Ringer	What is an isotope?
Procedure / Instructional Delivery	Discussion, Modelling Isotopes, Analysis of Models
Assessment	QuickLab, pp. 122 Section 2 Review nos. 9 - 12, pp. 127