

**Edmore Public School**  
**706 Main St, Edmore, ND 58330**

**Physical Science Lesson Plan**

**Dates:**

September 18 - 22, 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 18**

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

**Tuesday, September 19**

<b>Topic</b>	Review of The Development of Atomic Theory, pp. 110-118
<b>Objectives</b>	State the contribution of Dalton, Thomson, and Rutherford in the development of atomic theory.
<b>Bell Ringer</b>	Define <i>neutrons</i> .
<b>Procedure / Instructional Delivery</b>	Discussion, Model-Making, Video
<b>Assessment</b>	Section 1 Review, pp. 118 Lab, pp. 134 and 135 Planning for Performance Task: Structure of an Atom

**Wednesday, September 20**

<b>Topic</b>	Modern Atomic Theory, pp. 128 - 133
<b>Objectives</b>	Describe the modern model of an atom.
<b>Bell Ringer</b>	Define <i>valence electrons</i> .
<b>Procedure / Instructional Delivery</b>	Discussion, Use of Models, Analysis
<b>Assessment</b>	Section 3 Review nos. 1-7, pp. 132 Planning for Performance Task: Structure of an Atom

**Thursday, September 21**

<b>Topic</b>	Electron Energy Levels, pp. 130 and 132
<b>Objectives</b>	Describe the energy levels of an atom.
<b>Bell Ringer</b>	Define <i>photons</i> .
<b>Procedure / Instructional Delivery</b>	Discussion, Simulations, and Guided Practice
<b>Assessment</b>	Guided Practice, Review nos. 1 - 14, pp. 138 Planning for Performance Task: Structure of an Atom

**Friday, September 22**

<b>Topic</b>	Unit Project: Structure of an Atom
<b>Objectives</b>	Identify and describe the subatomic particles that make up an atom
<b>Bell Ringer</b>	What are the three main subatomic particles that form an atom?
<b>Procedure / Instructional Delivery</b>	Review, Model, and Guided Practice
<b>Assessment</b>	Performance Task (GRASPS)