

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

**Physical Science Lesson Plan**

**Dates:**

October 9 - 13, 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-PS1-5**

Apply scientific principles and evidence to provide an explanation about the effects of the reacting particles on the rate at which a reaction occurs.

**HS-PS1-7**

Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.

**Monday, October 9**

<b>Topic</b>	Lewis Dot Structures
<b>Objectives</b>	Draw Lewis Dot structures for covalently bonded compounds.
<b>Bell Ringer</b>	State the <i>octet rule</i> .
<b>Procedure / Instructional Delivery</b>	Simulation, Analysis, Guided Practice
<b>Assessment</b>	Practice Exercise on Lewis Dot Structures

**Tuesday, October 10**

<b>Topic</b>	Intermolecular Forces of Attraction (Dispersion Forces)
<b>Objectives</b>	Describe the types of intermolecular forces.
<b>Bell Ringer</b>	Define <i>intermolecular forces</i> .
<b>Procedure / Instructional Delivery</b>	Simulation, Illustration, Guided Practice
<b>Assessment</b>	Worksheet on Intermolecular Forces

**Wednesday, October 11**

<b>Topic</b>	Continuation: Intermolecular Forces of Attraction (Hydrogen Bonding, Ion-Dipole, and Dipole-dipole)
<b>Objectives</b>	Relate the polarity of a molecule to the properties of a substance.
<b>Bell Ringer</b>	Define <i>polarity</i> .
<b>Procedure / Instructional Delivery</b>	Interactive Discussion, Analysis, Guided Practice, Laboratory Activity
<b>Assessment</b>	Laboratory Activity

**Thursday, October 12**

<b>Topic</b>	Intermolecular Forces in Substances
<b>Objectives</b>	Describe the general types of intermolecular forces and their effects on the properties of substances.
<b>Bell Ringer</b>	What are the four types of intermolecular forces of attraction?
<b>Procedure / Instructional Delivery</b>	Laboratory Activity, Simulation, Discussion
<b>Assessment</b>	Laboratory Activity

**Friday, October 13**

<b>Topic</b>	Electron Energy Levels, pp. 130 and 131 Quiz Completion of Laboratory Activity
<b>Objectives</b>	Describe the electron shell of an atom.
<b>Bell Ringer</b>	Define <i>Orbital</i> .
<b>Procedure / Instructional Delivery</b>	Simulations, Interactive Discussion, Guided Practice, Hands-on Activity
<b>Assessment</b>	Practice Exercise on Electron Energy Level