

Edmore Public School
706 Main St, Edmore, ND 58330

Physical Science Lesson Plan

Dates:

November 13 - 17, 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, November 13

Topic	Mole Ratios, pp. 228 - 229
Objectives	Compare the amounts of any two materials in a balanced equation.
Bell Ringer	Define <i>mole</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Practice Exercise

Tuesday, November 14

Topic	Mole to Mass, pp. 229
Objectives	Compare the amounts of any two materials in a balanced equation.
Bell Ringer	Provide the mole ratio for H ₂ O:H ₂ :O ₂ , according to the balanced equation: $2\text{H}_2\text{O} + 2\text{H}_2 \rightarrow \text{O}_2$
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	Practice Worksheet
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Wednesday, November 15	
Topic	Continuation: Mass to Mass, pp. 229
Objectives	Compare the amounts of any two materials in a balanced equation.
Bell Ringer	What is the molar mass (or mass) of CO ₂ ?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Practice Worksheet Practice Quiz

Thursday, November 16	
Topic	Introduction to Reaction Rates and Equilibrium, pp. 238 - 241
Objectives	State the four factors that affect rates of reaction.
Bell Ringer	What are the four factors affecting the rates of reaction?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Practice Quiz Phase 1 of Laboratory Activity

Friday, November 17	
Topic	Quiz Rate and Temperature of a Chemical Reaction, 248 - 249
Objectives	Describe how temperature, catalyst, and concentration affect rates of reaction.
Bell Ringer	Define <i>catalyst</i> .
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Laboratory Worksheet Quiz

