

WEEK OF November 13-17, 2023

COURSE: 8th Grade ADV & GEN Science		TEACHER: Turner		PERIODS: 1, 2, 3, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
M O N	<p>Determine if chemical equations are balanced or unbalanced.</p> <p>Balance chemical equations using coefficients.</p> <p>Identify types of chemical reactions.</p> <p>Describe energy in reactions, including activation energy, and endothermic/exothermic reactions.</p> <p>Use graphs to show what happens to energy in endothermic & exothermic reactions.</p>	<p>GEN BR: Counting Atoms questions</p> <p>ADV BR: Balanced or unbalanced questions</p> <p>Students will:</p> <p>GEN: Demonstrate balancing equations using PhET simulation; complete front side of Balancing Equations Challenge & Balancing Act.</p> <p>ADV: Review types of chemical reactions; finish identifying reaction types on guided notes; discuss activation energy and energy in reactions; watch videos of endothermic and exothermic reactions; complete Key Concept Builder Energy in Reactions.</p>	<p>PhET Simulation: Balancing Equations</p> <p>Balancing Equations Challenge</p> <p>Balancing Act</p> <p>Fuse School video - Exothermic and Endothermic Reactions</p> <p>Sci Guys - Science at Home video: Exothermic Reactions and Supercooled Solutions</p>	<p>Finish any unfinished classwork</p> <p>ADV: Study for Unit 3 Part 2 - Chemical Reactions Test Friday</p>	Participation	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
T U E S	<p>Describe the Law of Conservation of Mass.</p> <p>Explain why chemical equations must be balanced.</p> <p>Describe and identify types of chemical reactions.</p> <p>Observe and describe energy</p>	<p>GEN BR: Law of Conservation of Mass questions</p> <p>ADV BR: Types of Reactions questions</p> <p>Students will:</p> <p>GEN: Finish Balancing Equations</p>	<p>Balancing Equations Challenge</p> <p>Balancing Act</p> <p>Balanced or Unbalanced? Worksheet</p> <p>Types of Chemical Reactions</p>	<p>Finish any unfinished classwork</p> <p>ADV: Study for Unit 3 Part 2 - Chemical Reactions Test Friday</p>	Participation; checkpoint	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p>

	<p>in chemical reactions.</p> <p>Identify and demonstrate endothermic and exothermic reactions.</p>	<p>Challenge and Balancing Act; complete Balanced or Unbalanced? Worksheet; read Types of Chemical Reactions article & answer questions.</p> <p>ADV: Complete Checkpoint 3.3; complete Sunset in a Bag Lab; watch video: How to Speed Up Chemical Reactions & Get a Date; complete Factors that Affect Rates of Reactions Doodle Notes.</p>	<p>article</p> <p>E3/A+ Checkpoint 3.3</p> <p>Sunset in a Bag Lab</p> <p>How to Speed Up Chemical Reactions & Get a Date</p> <p>Factors that Affect Rates of Reactions</p> <p>Doodle Notes</p>			<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
W E D	<p>Describe and identify types of chemical reactions.</p> <p>Identify and describe factors that affect the rates of reactions.</p>	<p>GEN BR: Balancing equations questions</p> <p>ADV BR: Energy questions</p> <p>Students will:</p> <p>GEN: Complete Types of Chemical Reactions Guided notes by reading through the Chemical Reactions PowerPoint & watch Flintstones type of reactions video; complete back side of guided notes.</p> <p>ADV: Complete 4 Factors Lab - as demonstration.</p>	<p>Types of Chemical Reactions</p> <p>Guided notes</p> <p>Chemical Reactions PowerPoint</p> <p>Flintstones type of reactions video</p> <p>4 Factors Lab</p>	<p>Finish any unfinished classwork</p> <p>ADV: Study for Unit 3 Part 2 - Chemical Reactions Test Friday</p>	Participation	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
T H U R S	<p>Identify and demonstrate endothermic and exothermic reactions.</p> <p>Describe energy in reactions, including activation energy, and endothermic/exothermic</p>	<p>GEN BR: Types of reactions questions</p> <p>ADV BR: Energy questions</p> <p>Students will:</p> <p>GEN: Discuss energy in reactions - activation energy,</p>	<p>Sunset in a Bag Lab</p> <p>4 Factors Lab</p>	<p>Finish any unfinished classwork</p> <p>ADV: Study for Unit 3 Part 2 - Chemical Reactions Test</p>	Participation	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex</p>

	<p>reactions.</p> <p>Identify and describe factors that affect the rates of reactions.</p>	<p>endothermic reactions, & exothermic reactions; complete Sunset in a Bag lab.</p> <p>ADV: Finish 4 Factors Lab; review for Unit 3 Test Part 2 - Chemical Reactions.</p>		Friday		<p>molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
F R I	<p>Identify and describe factors that affect the rates of reactions.</p> <p>Demonstrate knowledge of chemical reactions.</p>	<p>GEN BR: Energy questions</p> <p>ADV BR: Rates of reactions questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 12 Vocabulary Quiz; watch video How to Speed Up a Chemical Reaction & Get a Date; complete Rates of Reactions Doodle notes; demonstrate reaction rates; complete Study Guide for test Tuesday after Thanksgiving..</p> <p>ADV: Complete Unit 3 Part 2 Test - Chemical Reactions; organize NB for Unit 3 NB Test Monday after Thanksgiving.</p>	<p>Ch. 12 Vocabulary Quiz</p> <p>How to Speed Up a Chemical Reaction & Get a Date video</p> <p>Rates of Reactions Doodle notes</p> <p>Reactions Study Guide</p> <p>Unit 3 Part 2 test</p>	Finish any unfinished classwork	Participation; test; quiz	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>