

WEEK OF September 23-27th, 2024

COURSE: 8th Grade ADV & GEN Science		TEACHER: Turner		PERIODS: 1, 2, 3, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
M O N	<p>Demonstrate organizational skills.</p> <p>Discuss different scientists and their contribution to the atomic theory.</p> <p>Differentiate between atomic discoveries, who made the discovery, and when the discovery occurred.</p> <p>Label the parts of an atom and describe the mass and charge of each part.</p>	<p>GEN BR: Atomic Theory questions</p> <p>ADV BR: Review questions</p> <p>Students will:</p> <p>GEN: Complete Key Concept Builder - Atomic Theory; read An Atom Apart Article & answer questions; complete Parts of an Atom Doodle Notes.</p> <p>ADV: Complete Unit 1 Notebook Test; make a new title page & table of contents for Unit 2 - Atoms.</p>	<p>Vocabulary</p> <p>Key Concept Builder - Atomic Theory</p> <p>An Atom Apart Article & questions</p> <p>Parts of an Atom Doodle Notes</p> <p>Advanced-Unit Matter Test</p>	Finish any unfinished classwork	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>Discuss different scientists and their contribution to the atomic theory.</p> <p>Differentiate between atomic discoveries, who made the discovery, and when the discovery occurred.</p> <p>Label the parts of an atom and describe the mass and charge of each part.</p> <p>Describe how atoms of different elements differ.</p> <p>Label an element box from the Periodic Table of Elements.</p> <p>Describe the information in</p>	<p>GEN BR: Parts of an Atom questions</p> <p>ADV BR: Review questions</p> <p>Students will:</p> <p>GEN: Complete Atoms Family (front side) using PPT; complete Element Box Doodle Notes; discuss APE MAN acronym; complete back side of Atoms Family.</p> <p>ADV: Discuss Unit 2 notes pp.3-4; watch videos Just How Small is an Atom? & TED Talk - 24,000 Year Search for the</p>	<p>Atoms Family</p> <p>Atoms Family PPT</p> <p>Element Box Doodle Notes</p> <p>E3/A+ Unit 2 notes</p> <p>Just How Small is an Atom? Video</p> <p>TED Talk - 24,000 Year Search for the Atom video</p> <p>Atomic Theory Timeline</p>	Finish any unfinished classwork	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>

	<p>an element box from the Periodic Table of Elements.</p> <p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p>	Atom; complete Atomic Theory Timeline.				
W E D	<p>Label the parts of an atom and describe the mass and charge of each part.</p> <p>Describe how atoms of different elements differ.</p> <p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p>	<p>GEN BR: Parts of an Atom questions</p> <p>ADV BR: Atomic Theory questions</p> <p>Students will:</p> <p>GEN: Finish back side of Atoms Family; complete Atoms Chart & Diagram; complete Round the Atomic Mass sheet.</p> <p>ADV: Complete Checkpoint 2.2; read An Atom Apart article & answer questions; discuss Unit 2 notes pp.1-2; complete Parts of an Atom Doodle notes; complete front side of Atoms Family.</p>	<p>Atoms Family</p> <p>Atoms Chart & Diagram</p> <p>Round the Atomic Mass</p> <p>E3/A+ Checkpoint 2.2</p> <p>E3/A+ Unit 2 notes</p> <p>An Atom Apart Article & questions</p> <p>Parts of an Atom Doodle Notes</p>	Finish any unfinished classwork	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>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 the parts of an atom, their location, mass, and charge.</p> <p>Describe how atoms of different elements differ.</p> <p>Label an element box from the Periodic Table of Elements.</p> <p>Describe the information in an element box from the Periodic Table of Elements.</p> <p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p>	<p>GEN BR: Element Box questions</p> <p>ADV BR: Part of an Atom questions</p> <p>Students will:</p> <p>GEN: Watch TED Talk - Genius of Mendeleev's Periodic Table; complete Color the Periodic Table activity.</p> <p>ADV: Complete Undiscovered Country PhET simulation & Lab.</p>	<p>TED Talk - Genius of Mendeleev's Periodic Table</p> <p>Color the Periodic Table activity</p> <p>Undiscovered Country PhET simulation & Lab</p>	Finish any unfinished classwork	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</p>

	Describe the organization of the Periodic Table of Elements and how it has changed as new information was discovered.					properties
F R I	<p>Label an element box from the Periodic Table of Elements.</p> <p>Describe the information in an element box from the Periodic Table of Elements.</p> <p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p> <p>Differentiate between metals, nonmetals, and metalloids.</p> <p>Use a Periodic Table of Elements to determine if an element is a metal, nonmetal, or metalloid.</p>	<p>GEN BR: Calculate parts of an atom questions</p> <p>ADV BR: Parts of an Atom questions</p> <p>Students will:</p> <p>GEN: Discuss & complete notes on the properties of metals, nonmetals, & metalloids; complete Metals, Nonmetals, & Metalloids worksheet.</p> <p>ADV: Discuss Unit 2 notes pp.6-8; complete Element Box Doodle Notes; discuss acronym APE MAN; complete back side of Atoms Family.</p>	<p>Metals, Nonmetals, & Metalloids notes & worksheet</p> <p>E3/A+ Unit 2 notes</p> <p>Element Box Doodle Notes</p> <p>Atoms Family</p>	Finish any unfinished classwork	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>