

WEEK OF October 3-7, 2024

COURSE: 8th Grade ADV & GEN Science		TEACHER: Turner		PERIODS: 1, 2, 3, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	<p>Describe the organization of the Periodic Table of Elements and how it has changed as new information was discovered.</p> <p>Differentiate between metals, nonmetals, and metalloids.</p> <p>Classify a substance as a metal, nonmetal, or metalloid based on its properties.</p> <p>Locate metals, nonmetals, and metalloids on a Periodic Table of Elements.</p> <p>Define and describe isotopes.</p> <p>Calculate the number of protons, electrons, and neutrons of an isotope.</p> <p>Differentiate between neutral atoms and isotopes.</p> <p>Describe how to identify isotopes.</p>	<p>GEN BR: Element questions</p> <p>ADV BR: PEN calculations/Isotopes</p> <p>Students will:</p> <p>GEN: Watch Tyler DeWitt Isotopes video & complete accompanying worksheet; complete Isotopes Practice Set.</p> <p>ADV:Complete: Watch Tyler DeWitt Isotopes video & complete accompanying worksheet; complete Isotopes Practice Set.</p> <p>Complete Checkpoint 2.2; watch TED Talk - Genius of Mendeleev Periodic Table; complete Periodic Table Activity, discuss rows, groups, atomic number, atomic mass, metals, nonmetal, & metalloids.</p>	<p>Tyler DeWitt Isotopes video & worksheet</p> <p>Isotopes Practice Set</p> <p>E3/A+ Checkpoint 2.2</p> <p>TED Talk - Genius of Mendeleev Periodic Table</p> <p>Periodic Table Activity</p>	<p>Finish any unfinished classwork</p> <p>GEN: Review for Ch. 9 Vocab</p> <p>ADV: Review for Unit 2 Test NEXT Friday</p>	<p>Participation; checkpoint</p>	<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>
TUES	<p>Calculate the number of protons, electrons, and neutrons of an isotope.</p> <p>Differentiate between neutral atoms and isotopes.</p> <p>Describe how to identify isotopes.</p>	<p>GEN BR: Isotope questions</p> <p>ADV BR: PEN calculations</p> <p>Students will:</p> <p>GEN: Review Isotopes; complete Isotope Practice;</p>	<p>Isotope Practice</p> <p>Isotope Identification Practice</p> <p>E3/A+ Unit 2 Notes</p> <p>It's in the Cards Information</p>	<p>Finish any unfinished classwork</p> <p>GEN: Review for Ch. 10 Vocab Quiz</p>	<p>Participation</p>	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of</p>

	<p>Describe the organization of the Periodic Table of Elements and how it has changed as new information was discovered.</p> <p>Differentiate between metals, nonmetals, and metalloids.</p> <p>Classify a substance as a metal, nonmetal, or metalloid based on its properties.</p> <p>Locate metals, nonmetals, and metalloids on a Periodic Table of Elements.</p>	<p>complete Isotope Identification Practice.</p> <p>ADV: Unit 2 Notes, p. 5, 10-11 - organization, rows, groups, atomic number, atomic mass, metals, nonmetal, & metalloids; complete It's in the Cards activity; complete Information About Atoms sheet.</p>	<p>About Atoms sheet</p>	<p>Wednesday</p> <p>ADV: Review for Unit 2 Test NEXT Friday</p>		<p>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>
W E D	<p>Utilize the periodic table to draw Bohr models of atoms.</p> <p>Utilize a Bohr model and periodic table to identify atoms of elements.</p> <p>Calculate the number of protons, electrons, and neutrons of an isotope.</p> <p>Differentiate between neutral atoms and isotopes.</p> <p>Describe how to identify isotopes.</p>	<p>GEN BR: Isotope questions</p> <p>ADV BR: Element questions</p> <p>Students will:</p> <p>GEN: discuss & take notes on drawing Bohr Models; practice drawing Bohr Models on white boards; complete Bohr Diagram Worksheet.</p> <p>ADV: Complete Checkpoint 2.4; discuss Unit 2 notes pp.7-8 - Isotopes; watch Tyler DeWitt Isotopes video & complete accompanying worksheet; complete Isotopes Practice Set.</p>	<p>Ch. 9 Vocab Quiz</p> <p>Bohr Model Notes</p> <p>Bohr Diagram Worksheet</p> <p>E3/A+ Checkpoint 2.4</p> <p>E3/A+ Unit 2 Notes</p> <p>Tyler DeWitt Isotopes video & worksheet</p> <p>Isotopes Practice Set</p>	<p>Finish any unfinished classwork</p> <p>GEN: Review for Ch. 10 Vocab Quiz NEXT Wednesday & Atoms Unit Test Thursday.</p> <p>ADV: Review for Unit 2 Test NEXT Friday</p>	<p>Participation; quiz; checkpoint</p>	<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>Utilize the periodic table to draw Bohr models of atoms.</p> <p>Utilize a Bohr model and periodic table to identify atoms of elements.</p> <p>Model atomic identity by</p>	<p>GEN BR: Bohr model questions</p> <p>ADV BR: Isotope questions review</p> <p>Students will:</p> <p>GEN: Complete Which Atom is</p>	<p>Which Atom is Which?</p> <p>Using the Periodic Table</p> <p>Atomic Structure Worksheet</p>	<p>Finish any unfinished classwork</p> <p>GEN: Review for Ch. 10 Vocab Quiz NEXT</p>	<p>Participation; lab</p>	<p>ACOS:</p> <p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of</p>

	using manipulatives.	Which?; complete Using the Periodic Table; complete Atomic Structure Worksheet. ADV: Complete Modeling Atomic Identity Lab; complete Atomic Structure Review.	Modeling Atomic Identity Lab Atomic Structure Review	Wednesday & Atoms Unit Test Thursday. ADV: Review for Unit 2 Test NEXT Friday		atoms and simple and complex molecules 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
FRI	Calculate the number of protons, electrons, and neutrons of an isotope. Differentiate between neutral atoms and isotopes. Describe how to identify isotopes. Utilize the periodic table to draw Bohr models of atoms. Utilize a Bohr model and periodic table to identify atoms of elements.	Activities may change due to ½ day GEN BR: Bohr model questions ADV BR: Isotope questions Students will: GEN: Complete Atoms & Isotope Practice; complete Atomic Structure Review; complete Drawing Bohr Diagrams. ADV: Complete Isotope Practice; discuss Unit 2 notes p.9- Bohr Models; take notes on drawing Bohr Models; practice drawing Bohr Models on white boards; complete Bohr Diagram Worksheet.	Atoms & Isotope Practice Atomic Structure Review Drawing Bohr Diagrams Isotope Practice E3/A+ Unit 2 Notes Bohr Model Notes Bohr Diagram Worksheet	Finish any unfinished classwork GEN: Review for Ch. 10 Vocab Quiz NEXT Wednesday & Atoms Unit Test Thursday. ADV: Review for Unit 2 Test NEXT Friday	Participation	ACOS: 1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules 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