WEEK OF October 21-25th, 2024

COURSE: 8th Grade ADV & GEN Science	TEACHER: Turner	PERIODS: 1, 2, 3, 4, 6

	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	Demonstrate organizational skills. Memorize 45 common element names & symbols in order to utilize periodic tables more efficiently.	**GEN BR**: Review questions **ADV BR:** Review questions **Students will:** **GEN:** Complete Atoms Unit Notebook Test(for those that didn't take it on Friday; complete a new title page & table of contents; complete vocabulary for Ch. 11; begin making Element Symbol Flashcards. **ADV:** Complete Unit 2 Notebook Test; make a new title page & table of contents; begin making Element Symbol Flashcards.	Atoms Unit Notebook Test McGraw-Hill Physical Science Textbook Element Symbol Flashcard List Unit 2 Notebook Test	Finish any unfinished classwork **GEN & ADV:** **Continue working on Element Symbol Flashcards & memorizing them**		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
TUES	Use a periodic table to determine an atom's valence electrons. Determine if an atom will bond based on its number of valence electrons. Describe the Octet Rule and how it pertains to chemical bonding.	**GEN BR**: Element Flashcards **ADV BR:** Element Flashcards **Students will:** **GEN:** Complete Periodic Table Notes on groups/families & properties using Periodic Table PPT. **ADV:** Complete Sweet 16 Periodic Table Tournament; complete Valence Electrons Guided	Periodic Table Notes Periodic Table PPT Sweet 16 Periodic Table Tournament Valence Electrons Guided Notes & practice	Finish any unfinished classwork **GEN & ADV:** **Continue working on Element Symbol Flashcards & memorizing them**	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

		Notes & practice; add valence electrons to periodic table; begin Periodic Table Notes on groups/families & properties.				characteristic properties
W E D	Name periodic table groups, identify group members, identify properties, & location.	**GEN BR:** Element Flashcards **ADV BR:** Element Flashcards **Students will:** **GEN:** Complete Valence Electrons Guided Notes & practice; add valence electrons to periodic table. **ADV:** Finish Periodic Table Notes; watch video Chris Bozeman Electron Dot Diagram; complete Lewis Structure Notes & Practice using Middle School Science PPT.	Valence Electrons Guided Notes & practice Periodic Table Notes Periodic Table PPT Chris Bozeman Electron Dot Diagram video Lewis Structure Notes & Practice Middle School Science PPT	Finish any unfinished classwork **GEN & ADV:** **Continue working on Element Symbol Flashcards & memorizing them**	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
T H U R S	Utilize the Periodic Table to construct a Lewis Structure (Electron Dot Diagram) to show an atom's valence electrons.	**GEN BR:** Valence electron questions **ADV BR:** Valence electron questions **Students will:** **GEN:** Watch video Chris Bozeman Electron Dot Diagram; complete Lewis Structure Notes & Practice using Middle School Science PPT. **ADV:** Read Chemical Compounds Article & answer questions; discuss Unit 3 Notes; begin	Chris Bozeman Electron Dot Diagram video Lewis Structure Notes & Practice Middle School Science PPT Chemical Compounds Article E3/A+ Unit 3 Notes Periodic Table Basics Project	Finish any unfinished classwork **GEN & ADV:** **Continue working on Element Symbol Flashcards & memorizing them**	Participation; test	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

		Periodic Table Basics Project.				
F R I	Utilize the Periodic Table to construct a Lewis Structure (Electron Dot Diagram) to show an atom's valence electrons. Determine if an atom is neutral or electrically charged. Describe how an ion is formed. Differentiate between cations and anions.	**GEN BR:** Lewis Structure questions **ADV BR:** Lewis Structure questions **Students will:** **GEN:** Begin Periodic Table Basics Project. **ADV:** Discuss Unit 3 Notes; watch video What is an Ion? - Tyler DeWitt; label periodic table with oxidation numbers; complete Is it an Ion?; watch video Intro to Ionic Bonding - Tyler D..	Periodic Table Basics Project E3/A+ Unit 3 Notes What is an Ion? - Tyler DeWitt video Is it an Ion? Intro to Ionic Bonding - Tyler DeWitt video	Finish any unfinished classwork **GEN & ADV:** **Continue working on Element Symbol Flashcards & memorizing them**	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