

WEEK OF October 28th-Nov. 1, 2024

COURSE: 8th Grade ADV & GEN Science		TEACHER: Turner		PERIODS: 1, 2, 3, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	<p>Utilize the Periodic Table to construct a Lewis Structure (Electron Dot Diagram) to show an atom's valence electrons.</p> <p>Determine if an atom is neutral or electrically charged.</p> <p>Describe how an ion is formed.</p> <p>Differentiate between cations and anions.</p>	<p>GEN BR: Valence Electron questions</p> <p>ADV BR: Lewis Structure questions</p> <p>Students will:</p> <p>GEN: Begin Periodic Table Basics Project.</p> <p>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..</p>	<p>Periodic Table Basics Project</p> <p>E3/A+ Unit 3 Notes</p> <p>What is an Ion? - Tyler DeWitt video</p> <p>Is it an Ion?</p> <p>Intro to Ionic Bonding - Tyler DeWitt video</p>	<p>Finish any unfinished classwork</p> <p>GEN & ADV: Study Element Symbol Flashcards</p> <p>Periodic Table Project Due Wednesday</p> <p>ADV: Periodic Table Basics Project due Wednesday</p>	Participation	<p>ACOS:</p> <ol style="list-style-type: none"> Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules 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	<p>Utilize the Periodic Table to construct a Lewis Structure (Electron Dot Diagram) to show an atom's valence electrons.</p> <p>Utilize Lewis structures to show ionic bonding.</p> <p>Write ionic formulas and name ionic compounds.</p>	<p>GEN BR: Groups/Families questions</p> <p>ADV BR: Ion questions</p> <p>Students will:</p> <p>GEN: Continue working on Periodic Table Basics Project.</p> <p>ADV: Watch Ionic Bonding Part 2 video - Tyler DeWitt; draw Lewis Structures to show electron transfer; complete Bonding Basics - Ionic Bonding; discuss naming rules for Ionic Compounds; complete</p>	<p>Periodic Table Basics Project</p> <p>Ionic Bonding Part 2 video - Tyler DeWitt</p> <p>Bonding Basics - Ionic Bonds</p> <p>Criss-Cross Method Notes</p>	<p>Finish any unfinished classwork</p> <p>GEN & ADV: Study Element Symbol Flashcards</p> <p>ADV: Periodic Table Basics Project due Wednesday</p>	Participation; project	<p>ACOS:</p> <ol style="list-style-type: none"> Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties

		Criss-Cross method notes for writing formulas.				
W E D	<p>Determine if an atom is neutral or electrically charged.</p> <p>Describe how an ion is formed.</p> <p>Differentiate between cations and anions.</p> <p>Utilize Lewis structures to show ionic bonding.</p> <p>Write ionic formulas and name ionic compounds.</p> <p>Utilize the criss-cross method to write ionic formulas.</p> <p>Name ionic compounds based on their formula.</p>	<p>GEN BR: Valence electron questions</p> <p>ADV BR: Lewis Structure questions</p> <p>Students will:</p> <p>GEN: Watch video What is an Ion?; label periodic table with oxidation numbers; complete Is it an Ion? Worksheet</p> <p>ADV: Complete Checkpoint 3.1; discuss polyatomic ions; make flashcards for polyatomic ions; watch Ionic Bonding Part 3 video - Tyler DeWitt; discuss properties of ionic compounds; watch video Alkali Metals in Water; complete Writing Ionic Formulas & Naming Compounds sheet.</p>	<p>What is an Ion? Video - Tyler DeWitt</p> <p>Is it an Ion? Worksheet</p> <p>Ionic Bonding Part 3 video - Tyler DeWitt</p> <p>E3/A+ Checkpoint 3.1</p> <p>Alkali Metals in Water video</p> <p>Writing Ionic Formulas & Naming Compounds worksheet</p>	<p>Finish any unfinished classwork</p> <p>GEN & ADV: Study Element Symbol Flashcards</p> <p>ADV: Periodic Table Basics Project due today</p>	Participation; checkpoint	<p>ACOS:</p> <ol style="list-style-type: none"> Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules 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	<p>Determine if an atom is neutral or electrically charged.</p> <p>Describe how an ion is formed.</p> <p>Differentiate between cations and anions.</p> <p>Utilize Lewis structures to show ionic bonding.</p> <p>Write ionic formulas and name ionic compounds.</p> <p>Describe polyatomic ions and their charges.</p>	<p>GEN BR: Ion questions</p> <p>ADV BR: Ionic Bonding questions</p> <p>Students will:</p> <p>GEN: Watch Ionic Bonding Introduction video & complete Bonding Basics - Ionic; draw Lewis structures & show electron transfer, review naming rules for ionic compounds.</p> <p>ADV: Review</p>	<p>Ionic Bonding Introduction video - Tyler DeWitt</p> <p>Bonding Basics Ionic</p> <p>Polyatomic Practice sheet</p> <p>Bond with a Classmate</p> <p>Ionic Bonding Task Cards</p>	<p>Finish any unfinished classwork</p> <p>GEN & ADV: Study Element Symbol Flashcards</p>	Participation	<p>ACOS:</p> <ol style="list-style-type: none"> Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic

	<p>Utilize the criss-cross method to write ionic formulas.</p> <p>Name ionic compounds based on their formula.</p>	<p>Ionic Bonding - cations, anions, transfer electrons, writing formulas, naming compounds; complete Bond with a Classmate lab; practice polyatomic formulas & names; complete Ionic Bonding Task cards.</p>				properties
<p>F</p> <p>R</p> <p>I</p>	<p>Determine if an atom is neutral or electrically charged.</p> <p>Describe how an ion is formed.</p> <p>Differentiate between cations and anions.</p> <p>Utilize Lewis structures to show ionic bonding.</p> <p>Write ionic formulas and name ionic compounds.</p> <p>Describe polyatomic ions and their charges.</p> <p>Utilize the criss-cross method to write ionic formulas.</p> <p>Name ionic compounds based on their formula.</p>	<p>GEN BR: Ionic Bonding questions</p> <p>ADV BR: Ionic naming questions</p> <p>Students will:</p> <p>GEN: Watch Ionic Bonding Part 2 & 3 video; discuss properties of ionic compounds; watch video: Alkali Metals in Water; finish Bonding basics practice; complete Writing Ionic Formulas & Naming Compounds worksheet.</p> <p>ADV: Watch video: Ionic vs. Molecular; complete Covalent Guided Notes; begin Bonding Basics - Covalent; complete Practice Naming & Writing Covalent Compounds.</p>	<p>Ionic Bonding Part 2 & 3 videos - Tyler DeWitt</p> <p>Alkali Metals in Water video</p> <p>Bonding Basics - Ionic</p> <p>Writing Ionic Formulas & Naming Compounds worksheet</p> <p>Tyler DeWitt video - Ionic vs. Molecular</p> <p>Covalent Guided Notes</p> <p>Bonding Basics - Covalent</p> <p>Naming & Writing Covalent Compounds</p>	<p>Finish any unfinished classwork</p> <p>GEN & ADV: Study Element Symbol Flashcards</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>