

## WEEK OF October 23-27, 2023

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><b>GEN BR:</b> Valence Electron questions</p> <p><b>ADV BR:</b> Lewis Structure questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Begin Periodic Table Basics Project.</p> <p><b>ADV:</b> 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><b>GEN &amp; ADV:</b> <b>Study Element Symbol Flashcards</b></p>	Participation	<p>ACOS:</p> <ol style="list-style-type: none"> <li>Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</li> <li>Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</li> </ol>
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><b>GEN BR:</b> Groups/Families questions</p> <p><b>ADV BR:</b> Ion questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Continue working on Periodic Table Basics Project.</p> <p><b>ADV:</b> 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><b>GEN &amp; ADV:</b> <b>Study Element Symbol Flashcards</b></p>	Participation; project	<p>ACOS:</p> <ol style="list-style-type: none"> <li>Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</li> <li>Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</li> </ol>

		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><b>GEN BR:</b> Valence electron questions</p> <p><b>ADV BR:</b> Lewis Structure questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Watch video What is an Ion?; label periodic table with oxidation numbers; complete Is it an Ion? Worksheet</p> <p><b>ADV:</b> 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 &amp; 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 &amp; Naming Compounds worksheet</p>	<p>Finish any unfinished classwork</p> <p><b>GEN &amp; ADV:</b> <b>Study Element Symbol Flashcards</b></p>	<p>Participation; checkpoint</p>	<p>ACOS:</p> <ol style="list-style-type: none"> <li>Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</li> <li>Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</li> </ol>
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><b>GEN BR:</b> Ion questions</p> <p><b>ADV BR:</b> Ionic Bonding questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Watch Ionic Bonding Introduction video &amp; complete Bonding Basics - Ionic; draw Lewis structures &amp; show electron transfer, review naming rules for ionic compounds.</p> <p><b>ADV:</b> 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><b>GEN &amp; ADV:</b> <b>Study Element Symbol Flashcards</b></p>	<p>Participation</p>	<p>ACOS:</p> <ol style="list-style-type: none"> <li>Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</li> <li>Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic</li> </ol>

	<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 &amp; names; complete Ionic Bonding Task cards.</p>				properties
<p><b>F</b></p> <p><b>R</b></p> <p><b>I</b></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><b>GEN BR:</b> Ionic Bonding questions</p> <p><b>ADV BR:</b> Ionic naming questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Watch Ionic Bonding Part 2 &amp; 3 video; discuss properties of ionic compounds; watch video: Alkali Metals in Water; finish Bonding basics practice; complete Writing Ionic Formulas &amp; Naming Compounds worksheet.</p> <p><b>ADV:</b> Watch video: Ionic vs. Molecular; complete Covalent Guided Notes; begin Bonding Basics - Covalent; complete Practice Naming &amp; Writing Covalent Compounds.</p>	<p>Ionic Bonding Part 2 &amp; 3 videos - Tyler DeWitt</p> <p>Alkali Metals in Water video</p> <p>Bonding Basics - Ionic</p> <p>Writing Ionic Formulas &amp; Naming Compounds worksheet</p> <p>Tyler DeWitt video - Ionic vs. Molecular</p> <p>Covalent Guided Notes</p> <p>Bonding Basics - Covalent</p> <p>Naming &amp; Writing Covalent Compounds</p>	<p>Finish any unfinished classwork</p> <p><b>GEN &amp; ADV:</b> <b>Study Element Symbol Flashcards</b></p>	Participation	<p>ACOS:</p> <ol style="list-style-type: none"> <li>Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</li> <li>Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</li> </ol>