

# WEEK OF Dec. 7 - 11, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Bette Cobb		PERIODS: 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1 2 - 7	<p>Define valence electrons and describe how the columns on a periodic table relate to them.</p> <p>Utilize the periodic table to determine the number of valence electrons in an atom of an element.</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><b>GEN BR:</b> Complete valence electrons questions</p> <p><b>ADV BR:</b> Complete valence electrons questions</p> <p><b>Students will:</b> <b>GEN:</b> Watch video What is an Ion? &amp; complete Is it an Ion? worksheet; watch Ionic Bonding videos &amp; complete Bonding Basics - Ionic; write ionic formulas &amp; name ionic compounds using criss-cross method; complete Writing Ionic Formulas &amp; Naming Compounds worksheet. <b>ADV:</b> Watch Ionic Bonding Part 2 &amp; 3 finish Bonding Basics - Ionic; Writing Ionic Formulas &amp; Naming Compounds; utilize criss-cross method to write formulas; discuss properties of ionic compounds; watch video of alkali metals in water; discuss polyatomic ions &amp; practice naming &amp; writing of compounds with them; introduce Covalent Bonding.</p>	<p>Video - What is an Ion? - Tyler DeWitt</p> <p>Is it an Ion? Worksheet</p> <p>Video - Introduction to Ionic Bonding - Tyler Dewitt</p> <p>Video - Ionic Bonding Part 2 - Tyler DeWitt</p> <p>Video - Ionic Bonding Part 3 - Tyler DeWitt</p> <p>Bonding Basics - Ionic</p> <p>Writing Ionic Formulas &amp; Naming Compounds</p> <p>Video - Alkali Metals in Water</p> <p>Bonding Basics - Covalent</p>	<p><b>Virtual Assignment Due Friday</b></p> <p><b>Finish any unfinished classwork</b></p> <p><b>ADV: Review Polyatomic Ions names &amp; formulas for quiz Friday</b></p>	<p>Participation; classwork</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>W E D 1 2 - 9</p>	<p>Utilize the criss-cross method to write ionic formulas.</p> <p>Name ionic compounds based on their formula.</p> <p>Describe covalent bonds and what happens to valence electrons in covalent bonds.</p> <p>Differentiate between ionic and covalent bonds.</p> <p>Write and name covalent compounds.</p> <p>Discuss and differentiate between polar and nonpolar covalent bonds.</p> <p>Describe how metallic bonds form between metal atoms.</p> <p>Describe properties of metallic bonds.</p> <p>Describe Hydrogen bonds.</p>	<p><b>GEN BR:</b> Complete ions questions</p> <p><b>ADV BR:</b> Complete ion questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Review Ionic bonding, writing formulas, &amp; naming ionic compounds; complete Ionic Bonding Task cards; complete Ionic Bonding Quiz; introduce Covalent Bonding.</p> <p><b>ADV:</b> Complete Checkpoint 3.1; watch video - Ionic vs. Molecular; complete Bonding Basics - Covalent; complete Covalent Bonding Guided notes; complete Naming Covalent Compounds practice; discuss polar &amp; nonpolar covalent bonds; discuss metallic bonds &amp; electron pooling; describe characteristics of metallic bonds; discuss Hydrogen bonds.</p>	<p>Ionic Bonding Task Cards</p> <p>Ionic Bonding Quiz</p> <p>Video - Ionic vs. Molecular - Tyler DeWitt</p> <p>Bonding Basics - Covalent</p> <p>Covalent Bonding Guided notes</p>	<p><b>Virtual Assignment Due Friday</b></p> <p><b>Finish any unfinished classwork</b></p> <p><b>ADV: Review Polyatomic Ions names &amp; formulas for quiz Friday</b></p>	<p>Participation; classwork</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>F R I 1 2 - 1 1</p>	<p>Describe covalent bonds and what happens to valence electrons in covalent bonds.</p> <p>Differentiate between ionic and covalent bonds.</p> <p>Write and name covalent compounds.</p> <p>Describe how metallic bonds form between metal atoms.</p> <p>Describe properties of metallic bonds.</p> <p>Differentiate between ionic,</p>	<p><b>GEN BR:</b> Complete Lewis Structure questions</p> <p><b>ADV BR:</b> Complete Lewis Structure questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Watch video - Ionic vs. Molecular; complete Bonding Basics - Covalent; complete Covalent Bonding Guided notes; practice naming &amp; writing</p>	<p>Video - Ionic vs. Molecular - Tyler DeWitt</p> <p>Bonding Basics - Covalent</p> <p>Covalent Bonding Guided notes</p> <p>Naming Covalent Compounds</p> <p>A+/E3 Unit 3 notes</p> <p>A+/E3 Polyatomic Ion Quiz #1</p>	<p><b>Virtual Assignment Due Friday</b></p> <p><b>Finish any unfinished classwork</b></p>	<p>Participation; classwork</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</p>