WEEK OF October 30 - November 3, 2023

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

	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	Utilize the criss-cross method to write ionic formulas. Name ionic compounds based on their formula. Identify covalent compounds. Utilize Lewis Structures to show sharing of electrons in covalent bonds. Describe the properties of covalent compounds. Describe metallic bonds and how they are formed. Describe the properties of metallic bonds. Describe hydrogen bonding.	**GEN BR:** Ionic Bonding questions **ADV BR:** Polyatomic ion questions **Students will:** **GEN:** Finish Writing Ionic Formulas & Naming Compounds; complete Ionic Bonding Task Cards. **ADV:** Complete Checkpoint 3.2; finish Bonding Basics - Covalent; complete Practice Naming & Writing Covalent Compounds; discuss Unit 3 Notes - covalent properties, polar vs. nonpolar bonds; metallic bonds - pooling of electrons & properties; hydrogen bonds; watch video - Hydrogen Bonds & Electronegative & Polarity.	Writing Ionic Formulas & Naming Compounds Ionic Bonding Task Cards E3/A+ Checkpoint 3.2 Covalent Bonding Guided notes Bonding Basics - Covalent E3/A+ Unit 3 Notes Metallic Bonding Video - Bozeman Science Hydrogen Bonds video - Tyler DeWitt	Finish any unfinished classwork **GEN & ADV: Study Element Symbol Flashcards** **Periodic Table Projects are due**	Participation; checkpoint	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	Identify covalent compounds. Utilize Lewis Structures to show sharing of electrons in covalent bonds. Describe the properties of covalent compounds.	**GEN BR**: Ionic Bonding questions **ADV BR:** Polyatomic Ion questions **Students will:** **GEN:** Watch video: Ionic vs.	Ionic vs. Molecular video - Tyler DeWitt-Edpuzzles Covalent Guided Notes	Finish any unfinished classwork **GEN: Study Element Symbol Flashcards & Ch. 11**	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

	Determine if elements form an ionic or covalent bond and draw its bonding structure, formula, and name.	Molecular; complete Covalent Guided Notes; begin Bonding Basics - Covalent. **ADV:** Complete Element Symbols Test; complete Candy Compounds; complete Chemical Bonding Worksheet.	Bonding Basics - Covalent Element Symbols Test Candy Compounds Chemical Bonding Worksheet Element Symbols Test Candy Compounds Chemical Bonding Worksheet	**Vocabulary** **ADV: Study Polyatomic Ions & Bonding Unit**		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
W E D	Identify covalent compounds. Utilize Lewis Structures to show sharing of electrons in covalent bonds. Describe the properties of covalent compounds. Determine if elements form an ionic or covalent bond and draw its bonding structure, formula, and name.	**GEN BR:** Covalent Bonds questions **ADV BR:** Covalent Bonds questions **Students will:** **GEN:** Element Symbols Test; finish Bonding Basics - Covalent; finish back side of Guided notes - Practice Writing & Naming Covalent compounds. **ADV:** Complete Ion Quiz #1; complete Chemical Bonding Task Cards; complete Ionic & Covalent Bonding (A) worksheet.	Element Symbols Test Bonding Basics - Covalent Guided notes - Practice Writing & Naming Covalent compounds Ion Quiz #1 Chemical Bonding Task Cards Ionic & Covalent Bonding (A) worksheet	Finish any unfinished classwork **GEN: Study Ch. 11 Vocabulary & Bonding Unit** **ADV: Study Polyatomic Ions & Bonding Unit**	Participation; test; quiz	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	Describe metallic bonds and how they are formed. Describe the properties of metallic bonds. Review Bonding objectives.	**GEN BR:** Covalent Bonding questions **ADV BR:** Covalent Bonding questions **Students will:**	Metallic Bonding Video - Bozeman Science Bonding comparison chart	Finish any unfinished classwork **GEN: Study Ch. 11 Vocabulary & Bonding Unit**	Participation; quiz	ACOS: 1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex

		GEN: Watch Metallic Bonding video; discuss Bonding comparison chart; complete Chemical Bonding worksheet. **ADV:** Complete Ion Quiz #2; review for Bonding Test.	Chemical Bonding worksheet Ion Quiz #2	**ADV: Study Bonding Unit**		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
F R I	Demonstrate knowledge of bonding vocabulary. Review Bonding objectives. Demonstrate knowledge of bonding objectives.	**GEN BR:** Metallic bonding questions **ADV BR:** Metallic & hydrogen bonding questions **Students will:** **GEN:** Complete Ch. 11 Vocabulary quiz; complete Chemical Bonding Task Cards; complete Bonding Study Guide. **ADV:** Complete Bonding Test; read Chemical Equations Article & answer questions.	Ch. 11 Vocabulary Quiz Chemical Bonding Task Cards Bonding Study Guide Bonding Test Chemical Equations Article	Finish any unfinished classwork **GEN: Study Bonding Unit**	Participation; quiz; 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