WEEK OF September 9th-13th, 2024

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

	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	Define matter and classify descriptions as matter or nonmatter. Differentiate states of matter based on molecular structure. Describe properties of each state of matter. Describe how the addition or removal of thermal energy affects the state of matter. Differentiate between phases of matter. Identify phase changes based on movement of thermal energy. Define physical and chemical properties. Utilize physical and chemical properties to show how substances differ. Differentiate physical and chemical properties.	**GEN BR**: Phys/Chem properties questions **ADV BR:** States of matter questions **Students will:** **GEN:** Complete Physical & Chemical Situation cards; complete Odd One Out: Physical & Chemical Changes; Physical/Chemical Properties & Changes worksheet. **ADV:** Complete Checkpoint 1.2; read Physical, Chemical, & Nuclear article & answer questions; complete States of Matter Task Cards; complete What is Matter & Changes in Matter; complete Key Concept Builder – States of Matter & Changes in States.	Physical & Chemical Situation cards Odd One Out: Physical & Chemical Changes Physical/Chemical Properties & Changes worksheet E3/A+ Checkpoint 1.2 Physical, Chemical, & Nuclear article States of Matter Task Cards What is Matter & Changes in Matter Key Concept Builder – States of Matter & Changes in States	Finish any unfinished classwork **GEN: Study for Vocabulary Quiz Friday**	Participation; checkpoint	ACOS: 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. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.
TUES	Define physical and chemical properties. Utilize physical and chemical properties to show how substances differ. Differentiate physical and chemical properties. Calculate density and	**GEN BR**: Phys/Chem Changes questions **ADV BR:** Changes in states questions **Students will:** **GEN:** Complete Density Foldables; discuss formula, calculations,	Density Foldables Density Practice Problems E3/A+ Unit 1 Notes Physical & Chemical Changes Card Sort	Finish any unfinished classwork **GEN: Study for Vocabulary Quiz Friday**	Participation	ACOS: 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. 4. Design and conduct an experiment to determine

	manipulate the density formula to solve for mass and volume.	regular objects, irregular objects, units, & how to manipulate the formula; complete Density Practice Problems. **ADV:** Discuss Unit 1 Notes pp.5-9: physical & chemical properties & changes, size dependent & independent; complete Physical & Chemical Changes Card Sort; complete Physical & Chemical Properties & Changes worksheet.	Physical & Chemical Properties & Changes worksheet			change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.
WED	Define physical and chemical properties. Utilize physical and chemical properties to show how substances differ. Differentiate physical and chemical properties. Calculate density and manipulate the density formula to solve for mass and volume. Calculate volume of regular & irregular objects. Calculate density of a regular & irregular object. Differentiate between samples of matter based on the physical property of density.	**GEN BR:** Endothermic & Exothermic questions **ADV BR:** Phys/Chem properties questions **Students will:** **GEN:** Complete Density Lab; demo Physical & Chemical lab. **ADV:** Complete Checkpoint 1.3; complete Physical & Chemical Properties & Changes Lab.	Density Lab E3/A+ Checkpoint 1.3 Physical & Chemical Properties & Changes Lab	Finish any unfinished classwork **GEN: Study for Vocabulary Quiz Friday**	Participation; lab	ACOS: 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. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.
THUR	Define physical and chemical properties. Utilize physical and chemical	**GEN BR:** Density questions **ADV BR:** Phys/Chem	Exploring Density Mass, Volume,	Finish any unfinished classwork	Participation	ACOS: 2. Plan and carry out investigations to generate evidence supporting the

S	properties to show how substances differ. Differentiate physical and chemical properties. Calculate density and manipulate the density formula to solve for mass and volume. Calculate volume of regular & irregular objects. Calculate density of a regular & irregular object. Differentiate between samples of matter based on the physical property of density.	changes questions **Students will:** **GEN:** Complete Exploring Density; complete Mass, Volume, Density? worksheet. **ADV:** Complete Odd One Out: Physical & Chemical Properties & Changes; discuss Density property: formula, calculations, regular objects, irregular objects, units, & how to manipulate the formula; complete Density Practice Problems.	Density? Odd One Out: Physical & Chemical Properties & Changes Density Practice Problems	**GEN: Study for Vocabulary Quiz Friday**		claim that one pure substance can be distinguished from another based on characteristic properties. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.
F R I	Demonstrate knowledge of matter unit vocabulary. Calculate density and manipulate the density formula to solve for mass and volume. Calculate volume of regular & irregular objects. Calculate density of a regular & irregular object. Differentiate between samples of matter based on the physical property of density.	**GEN BR:** Density questions **ADV BR:** Endothermic & exothermic questions **Students will:** **GEN:** Complete Matter Vocabulary Quiz; complete Study Guide for Matter Unit Test. **ADV:** Complete Checkpoint 1.4; complete Density Lab.	Matter Vocabulary Quiz Study Guide for Matter Unit Test E3/A+ Checkpoint 1.3 Density Lab	Finish any unfinished classwork	Participation; vocabulary quiz; lab	ACOS: 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. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.