



Eighth Grade
Science
Regular Curriculum

Unit Name: Chemistry		6 Weeks Days to Teach: 1 st – 2 nd 6 weeks (about 8 weeks)	
Date Taught	TEKS	Content/Vocabulary	Guiding Questions
	<p>8.8 The student knows that matter is composed of atoms. The student is expected to:</p> <p>(A) describe the structure and parts of an atom; and</p> <p>(B) identify the properties of an atom including mass and electrical charge.</p> <p>8.9 The student knows that substances have chemical and physical properties. The student is expected to:</p> <p>(A) demonstrate that substances may react chemically to form new substances;</p> <p>(B) interpret information on the periodic table to understand that physical properties are used to group elements;</p> <p>(C) recognize the importance of formulas and equations to express what happens in chem reactions; and</p>	Periodic Table Elements Atoms Protons Neutrons Electrons Compounds Mixtures Physical Properties Chemical Properties Atomic Number Atomic Mass Group/Family Period Chemical Reaction Chemical Formula Matter Specific Heat Exothermic Endothermic Valence Electrons Bohr Model Nucleus Chemical Equation Coefficient Subscript Conservation of Mass	<p>Questions for TEK 8.8</p> <p>What are the parts of an atom and what are their functions?</p> <p>How do you determine the mass of an atom of an element?</p> <p>Does an atom have an electrical charge?</p> <p>What is the best evidence that a chemical reaction has taken place?</p> <p>What can you determine about an element based on where it is in the periodic table?</p> <p>How can scientist show chemical reactions so the scientific community will understand the reaction that took place?</p> <p>What are physical and chemical properties the influence your everyday life, such as everything you do before you get to school in the morning?</p>



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	<p>(D) identify that physical and chemical properties influence the development and application of everyday materials such as cooking surfaces, insulation, adhesives, and plastics.</p> <p>8.10</p> <p>The student knows that complex interactions occur between matter and energy. The student is expected to:</p> <p>(A) illustrate interactions between matter and energy including specific heat;</p> <p>(C) identify and demonstrate that loss or gain of heat energy occurs during exothermic and endothermic chemical reactions.</p>		<p>Questions for TEK 8.10</p> <p>Which heats up faster and cools slower? Joe Pool Lake or the parking lot outside?</p> <p>How can you tell the difference between an endothermic and exothermic reaction?</p>
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