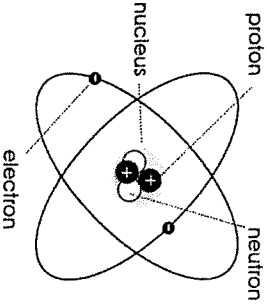
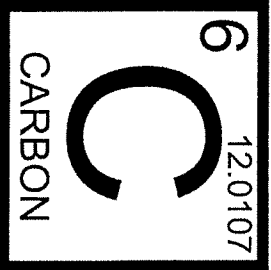
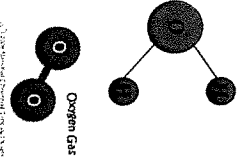
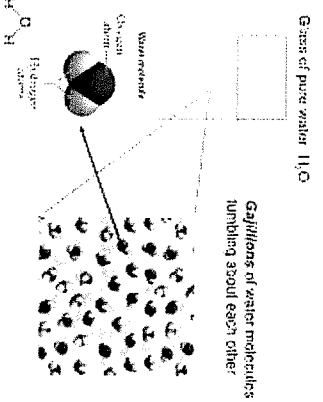
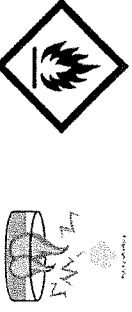
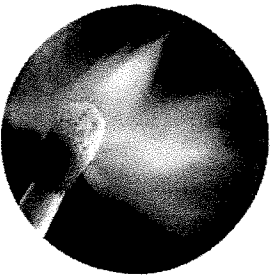
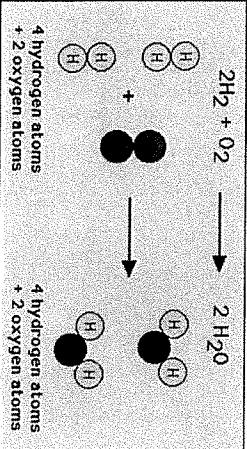


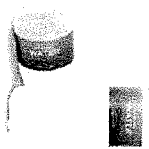
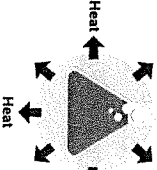
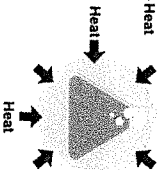
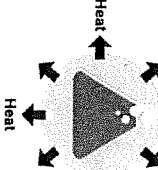
Matter Unit Vocabulary

Vocabulary: atom, molecule, matter, chemical reaction, reactant, product, pure substance, physical property, property, chemical property, volume, mass, density, melting point, boiling point, solubility, flammability, odor, synthetic material, Law of Conservation of Matter

<p>atom</p>	<p>the smallest part of an element; the building blocks of matter</p>	
<p>element</p>	<p>a substance composed of only one kind of atom; the simplest form of matter</p>	
<p>molecule</p>	<p>a group of two or more atoms held together by chemical bonds</p>	

<p>(pure) substance</p>	<p>something that is made from all the same atoms or the same molecules</p>	
<p>property</p>	<p>characteristics that can be observed about a substance</p>	<p>physical & chemical; specific & general</p>
<p>physical properties</p>	<p>characteristics of matter that can be observed without changing the substance</p>	<p>density, mass, volume, melting point, boiling point, solubility, color, texture, viscosity</p>
<p>chemical properties</p>	<p>characteristics of matter that are determined by the arrangement of atoms in the substance's molecules</p>	<p>flammability, reactivity</p> 

<p>chemical reaction</p>	<p>a process in which atoms in two or more molecules rearrange to form new substances</p>	
<p>reactant</p>	<p>a starting substance that is part of a chemical reaction</p>	$H_2 + O_2 \rightarrow H_2O$ <p>reactants products</p>
<p>product</p>	<p>an ending substance that is made during a chemical reaction</p>	$2 SO_2(g) + O_2(g) \rightarrow 2 SO_3(g)$ <p>Reactants Products</p>
<p>Law of Conservation of Matter</p>	<p>no atoms are gained or lost in a chemical reaction, they are just rearranged. The mass of the products is equal to the mass of the reactants.</p>	

<p>synthetic material</p>	<p>a product made from a natural resource that has undergone a chemical process</p>	<p>nylon, plastic, polyester</p> 
<p>endothermic</p>	<p>A chemical reaction that takes in heat energy; feels cool</p>	<p>Exothermic</p>  <p>Endothermic</p> 
<p>exothermic</p>	<p>A chemical reaction that gives off heat energy; feels warm</p>	<p>Exothermic</p>  <p>Endothermic</p> 