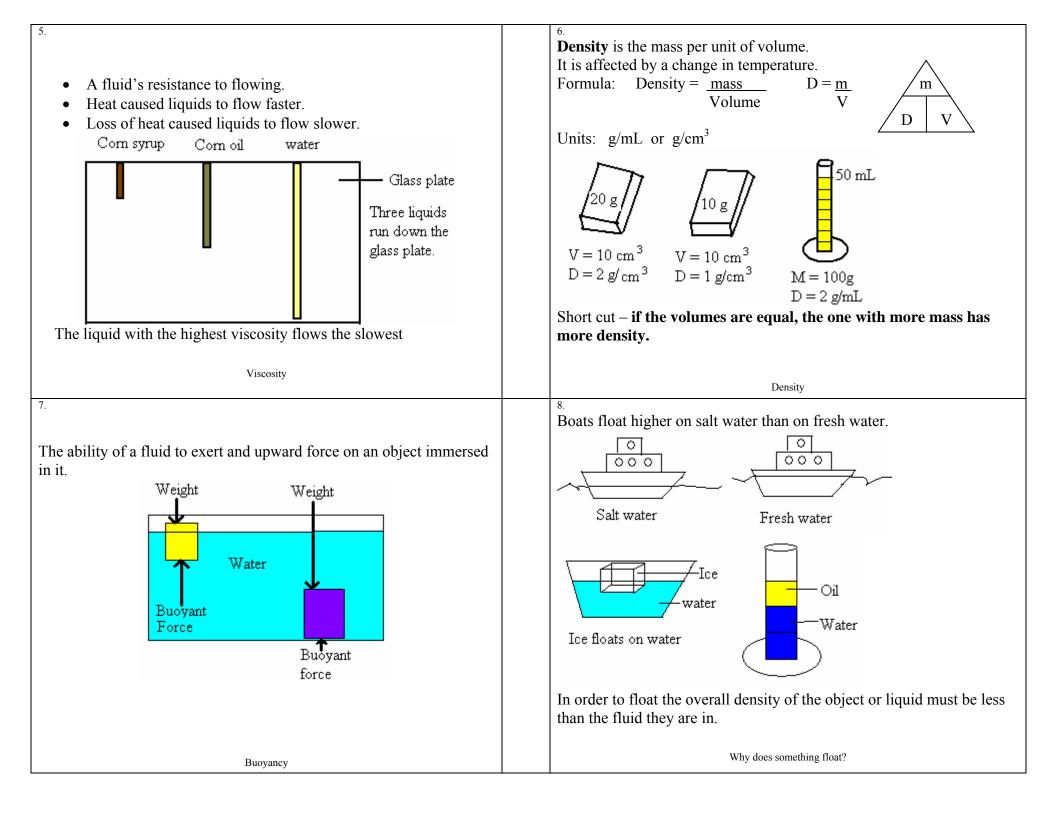
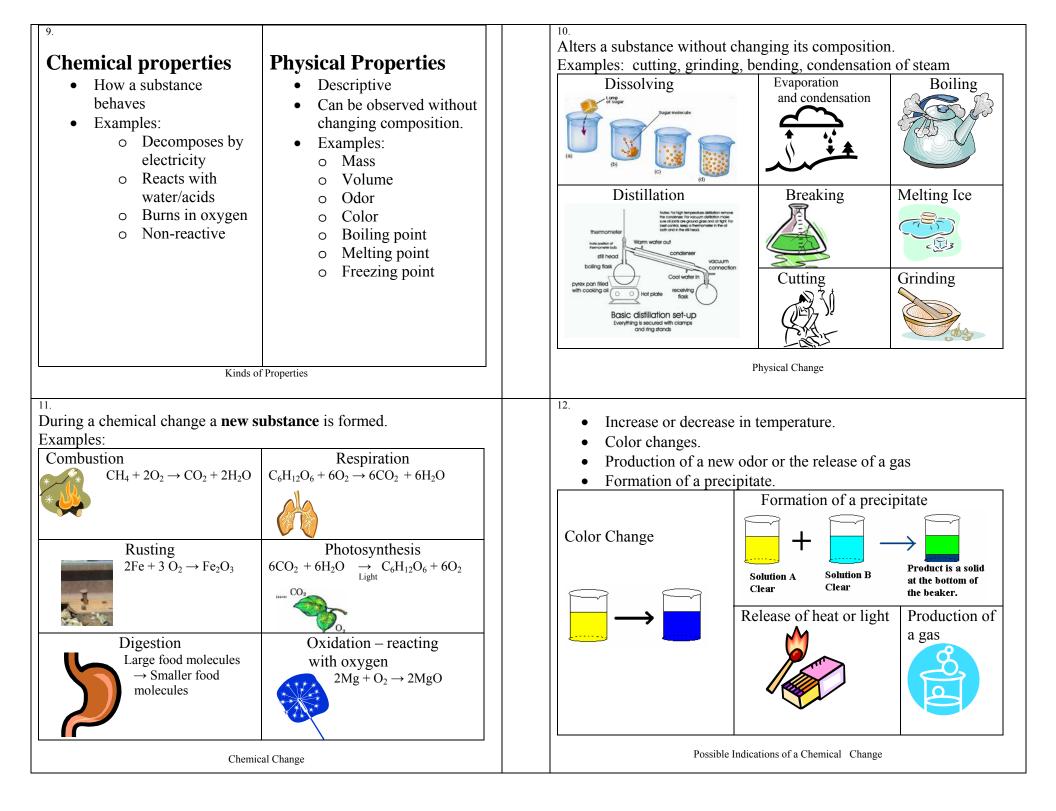
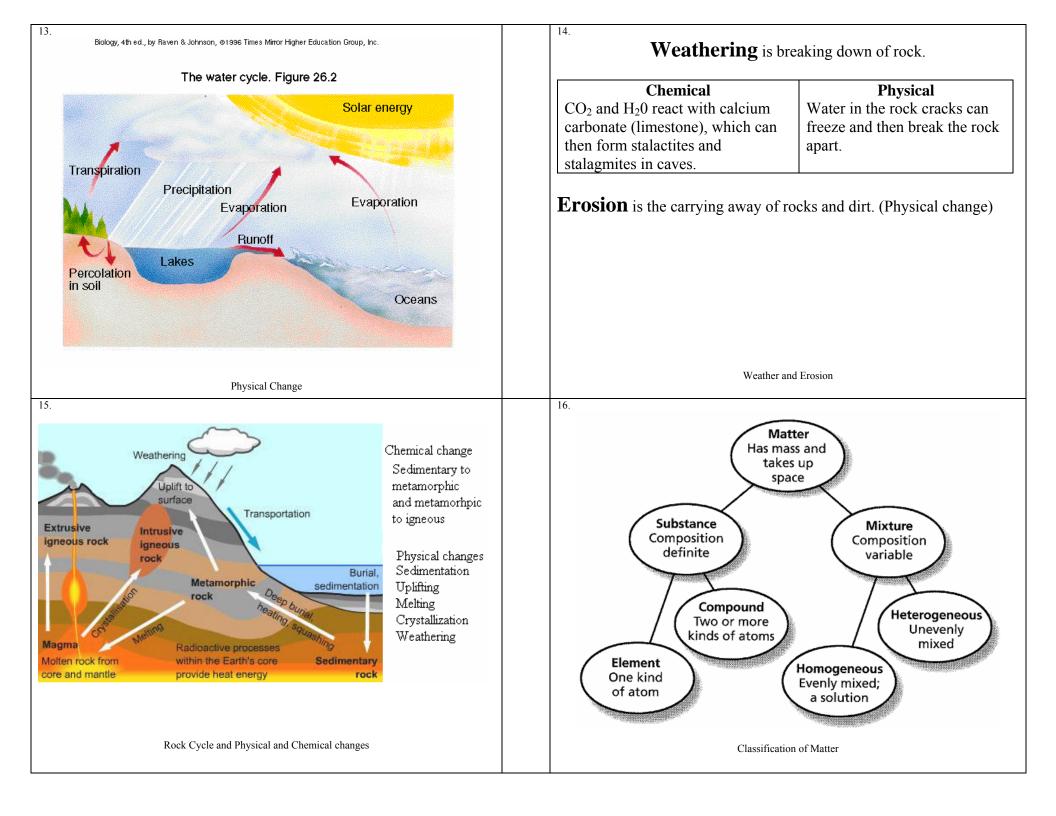
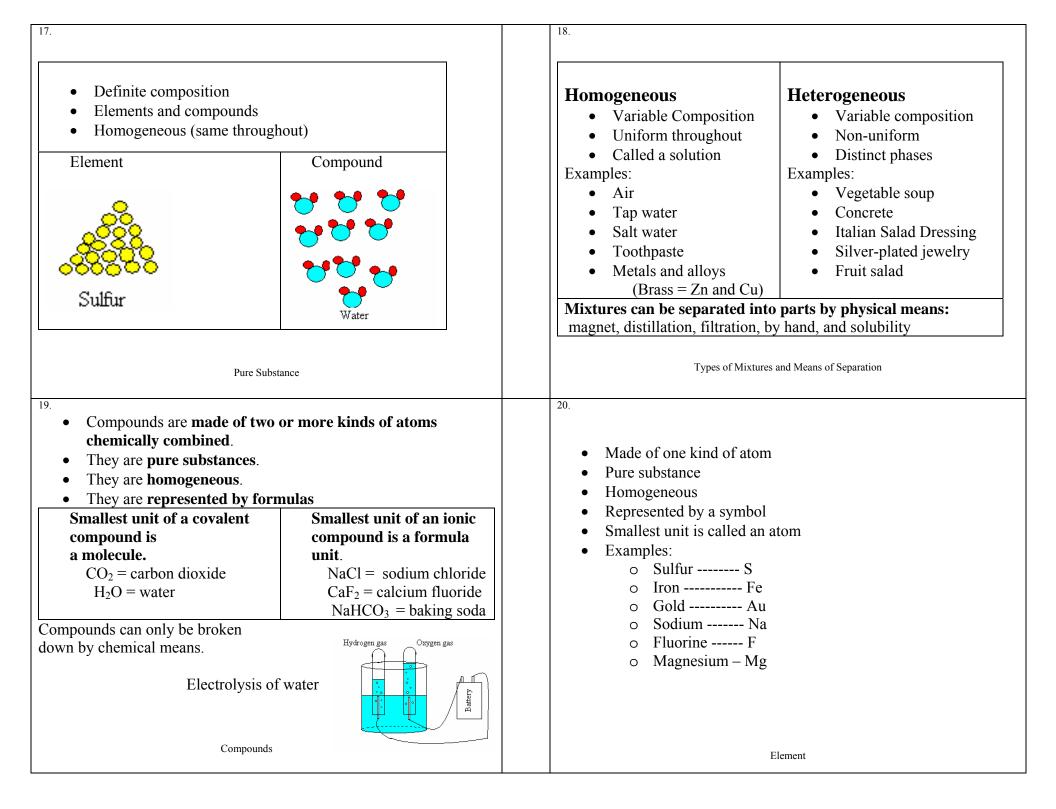
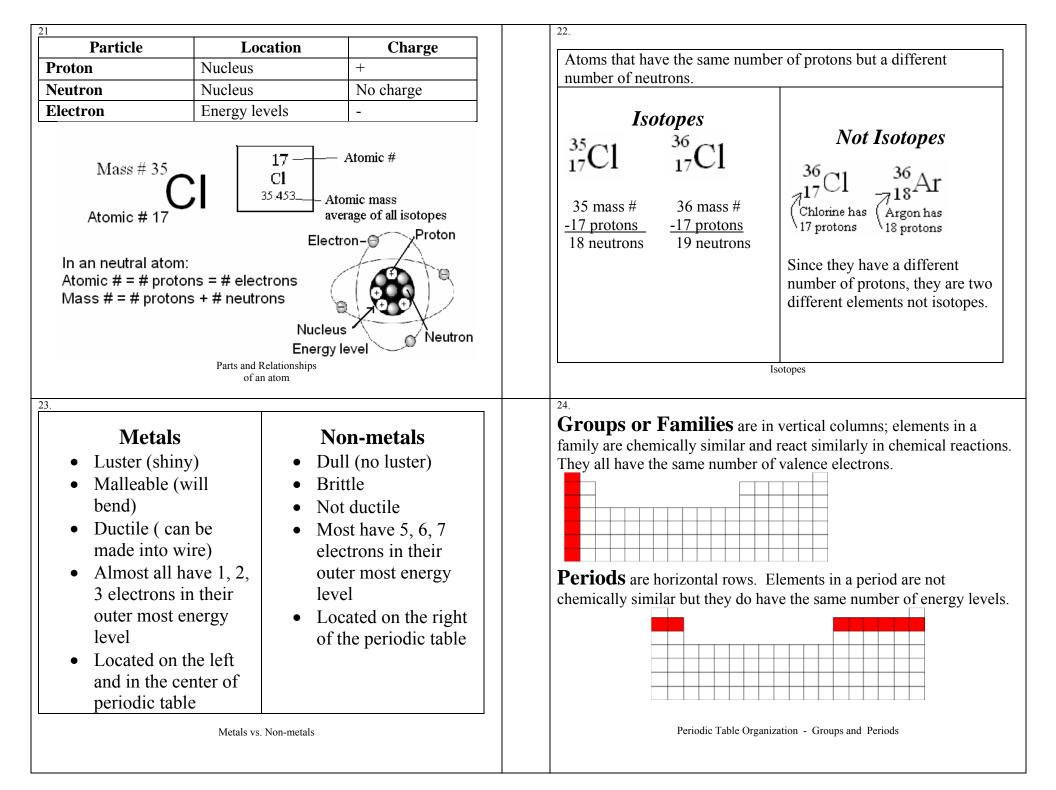
| Chemistry  |   |  |
|--|---|--|
| T<br>The second state of the | <ul> <li><sup>2</sup>.</li> <li>Matter is anything that occupies space and has mass.<br/>Examples: <ul> <li>Air</li> <li>Oxygen</li> <li>Table</li> <li>Chair</li> <li>Water</li> </ul> </li> <li>Find mass using a balance</li> <li>Find the volume of a liquid and an irregular solid by l x w x h</li> </ul> |  |
| <ul> <li>Solid- has definite shape and volume and is not compressible.</li> <li>Liquid- (fluid) Flows; it has a fixed volume, and takes the shape of its container.</li> <li>Gas – (fluid) Flows, takes the shape and volume of the container, and is compressible.</li> </ul>   | <ul><li><sup>4.</sup></li><li>Fluid -A substance in which the atoms or molecules can freely move past one another.</li></ul>  |  |
| Increase in<br>temperature<br>Melting<br>Freeze<br>Decrease in<br>temperature<br>Liquid<br>Increase in<br>temperature<br>Decrease in<br>temperature<br>Gas   | Examples: Gases and Liquids   |  |
| Three states of matter   | Fluid   |  |

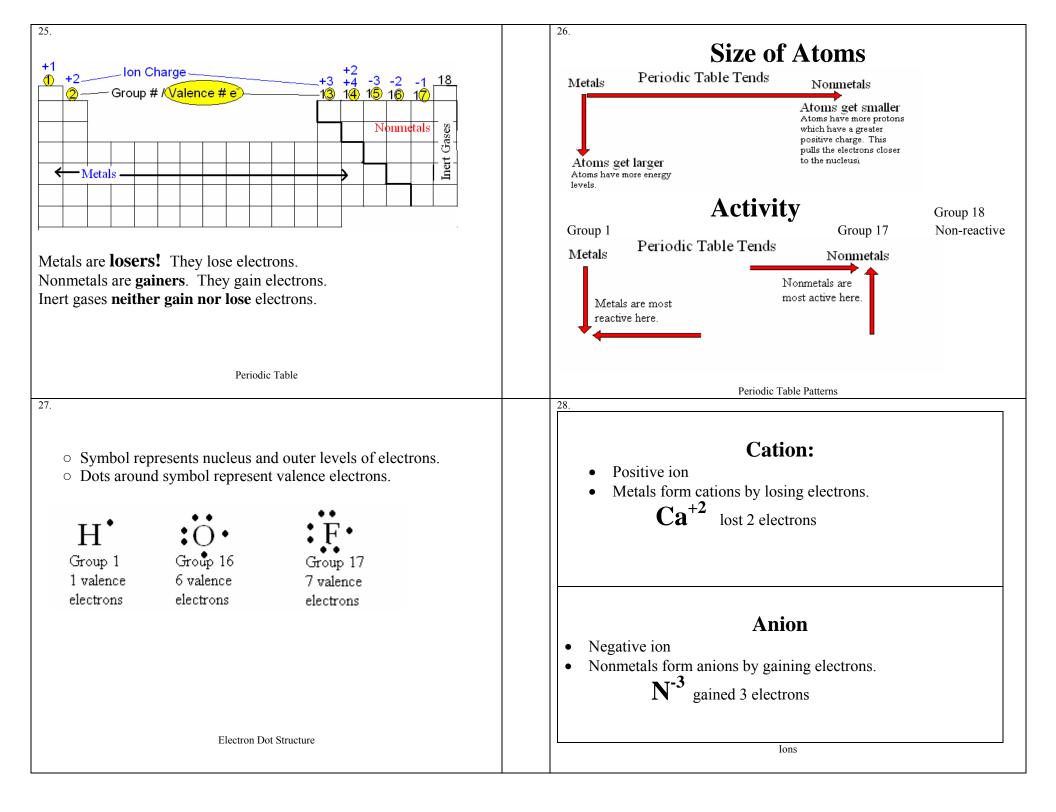


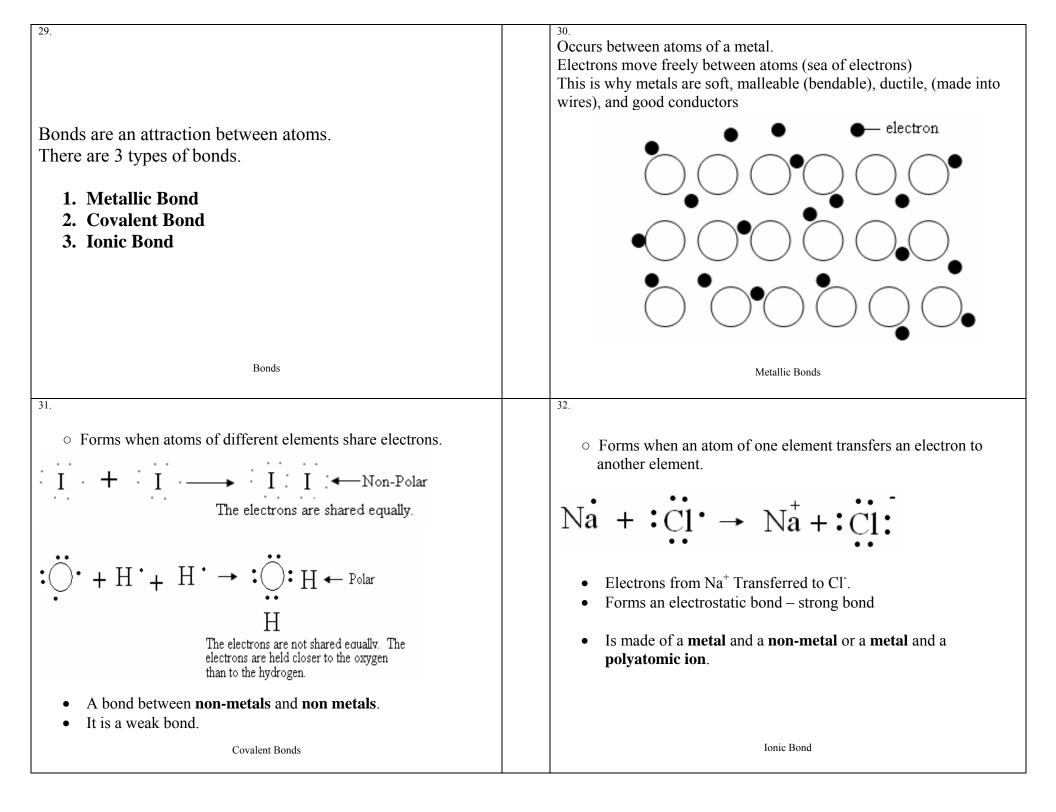












| <ul> <li>Ionic</li> <li>Exists as a formula unit</li> <li>Contain positive and<br/>negative ions (e<sup>-</sup> are<br/>transferred)</li> <li>Usually solid</li> <li>High melting and<br/>boiling point</li> <li>Strong force of<br/>attraction between ions</li> <li>Separates in water to<br/>form ions</li> <li>Electrolytes (when<br/>dissolved in water or<br/>when molten)</li> <li>Metal and non metal</li> </ul>  | <ul> <li>Covalent</li> <li>Exists as neutral molecules</li> <li>Atoms share electrons</li> <li>Can be a solid, liquid, or gas</li> <li>Has low melting points</li> <li>Weak force of attraction between molecules</li> <li>Remains a molecule in water</li> <li>Non-electrolyte</li> <li>Made of non-metals (example: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>)</li> </ul> | A compound that conducts electricity when dissolved in water or when<br>molten.   |
|---|--|---|
| (NaCl)<br>35.   | Compounds  | Electrolyte 36.   |
| Ionic $\circ$ Write formula of metal ion $\circ$ Write formula of nonmetalion (or polyatomic ion) $\circ$ Balance the electrical chargesto zero using subscripts $\circ$ Example: sodium oxideNa <sup>+1</sup> Na <sup>+1</sup> Na <sup>+1</sup> Na <sup>+1</sup> Na <sup>+1</sup> OrNa <sup>+1</sup> Na <sup>+1</sup> Na2OorNa <sup>+1</sup> Na <sup>+1</sup> Oand an and an analysisto zero using subscripts $\circ$ Example: sodium oxideNa <sup>+1</sup> Na <sup>+1</sup> Oand an analysisNa2OorNa <sup>+1</sup> Oan analysisorNa <sup>+1</sup> Oan analysisan anal | CovalentWrite the formula for the firstnon-metalWrite the formula for thesecond non-metalAdd the subscripts behind eachformula that matches the prefixin front of the non-metal name.On the first non-metal mono orno prefix at all both mean one.Example: Carbon dioxideCO2mono- 1hexa - 6di - 2hepta - 7tri -3octa - 8tetra -4nona - 9penta - 5deca - 10                 | <ul> <li>Ionic</li> <li>Name the metal ion</li> <li>Name the non-metal ion and change the ending to –ide</li> <li>Example:</li> <li>BaCl<sub>2</sub> is named Barium Chloride</li> <li>Write the second non-metal's name</li> <li>Write the second non-metal's name</li> <li>Write the second non-metal in front of the second non-metal and make sure the second non-metal and make sure the second non-metal is name ends in ide</li> <li>Example:</li> <li>No<sub>2</sub> is named nitrogen dioxide</li> </ul> |
| Ionio vo  | Subscripts are used when writing formulas  | Naming Binary Compounds   |

