Name	Period	
The Chemistry of Life Vocabulary		
Matter	anything that occupies space and has mass.	
Mass	how much matter an object has.	
Atom	the basic unit of matter	
Nucleus	the center of an atom, contains the protons and the neutrons	
Electron	a negatively charged particle, located in the space surrounding the nucleus	
Proton	a positively charged particle, located in the nucleus	
Neutron	a neutral particle, located in the nucleus	
Element	a pure substance that consists entirely of one type of an atom	
Ionic Bond	a chemical bond formed when one or more electrons are transferred from one atom to another	
Covalent Bond	a type of bond between atoms in which the electrons are shared	
Hydrogen Bond	weak attraction between a hydrogen atom and another atom	
Cohesion	the attraction between molecules of the same substance	
Adhesion	the force of attraction between different kinds of molecules	
Heat Capacity	the amount of heat energy needed to increase a substance's temperature	

Solution	a type of mixture in which all the components are evenly distributed; Ex - saltwater
Suspension	a mixture of water and nondissolved material; Ex - some medicines (shake before you take or they settle out)
Acid	a compound that releases hydrogen ions (H $^{\scriptscriptstyle +}$) in solution; a solution with a pH of less than 7
Base	a compound that releases hydroxide ions (OH ⁻) in solution; a solution with a pH of more than 7
Monomer	small chemical units that make up polymers
Polymer	molecules composed of many monomers, make up macromolecules
Carbohydrate	a compound made up of carbon, hydrogen, and oxygen atoms, a type of nutrient that is the main source of energy for the body (examples monosaccharides, and disaccharides)
Complex Carbohydrate	large macromolecules formed when simple sugars join together
Lipids	macromolecules that generally do not dissolve in water and are made mostly of carbon and hydrogen atoms (ex. Fats, oils, and waxes)
Saturated Fat	the fatty acid has as many hydrogen atoms it can have
Unsaturated Fat	when there is at least one carbon-carbon double bond in a fatty acid, these are liquids at room temperature
Nucleic Acid	a macromolecule containing hydrogen, oxygen, nitrogen, carbon, and phosphorus.

DNA	deoxyribonucleic acid
RNA	ribonucleic acid
Protein	macromolecules that contain carbon, hydrogen, oxygen, and nitrogen, needed by the body for growth and repair
Amino Acid	a compound with an amino group on one end and a carboxyl group on the other end (these are the molecules that make up proteins)
Chemical reaction	when one or more substances change to produce one or more different substances.
Reactants	substances that enter chemical reactions
Products	substances produced by chemical reactions
Metabolism	describes all of the chemical reactions that occur in an organism.
Activation energy	the amount of energy needed to start a reaction.
Catalyst	reduces the amount of activation energy that is needed for a reaction to take place.
Enzyme	a protein that speeds up reactions without being permanently changed or destroyed.