

Section Review 2-1

1. protons; neutrons 2. electrons 3. neutrons
4. electrons 5. ionic 6. The two main types of chemical bonds are ionic and covalent bonds. Ionic bonds are formed when a transfer of electrons takes place from one atom to another, and covalent bonds are formed when electrons are shared between atoms.
7. An atom becomes an ion when it gains or loses electrons.
8. Electrons and protons are both subatomic particles; however, they have different charges and locations within the atom. Electrons are negatively charged and found outside the nucleus, while protons are positively charged and found inside the nucleus. Electrons are also much smaller than protons.
9. When atoms are joined together by covalent bonds, the structure that results is a molecule.
10. The property of radioactive isotopes that is useful for dating is that they break down at a constant rate over time.

Section Review 2-2

1. a 2. b 3. c 4. c 5. a 6. b 7. c 8. Polarity in a water molecule is caused by an uneven distribution of electrons between the oxygen and hydrogen atoms.
9. The concentration of H^+ ions determines whether a solution is acidic or basic.
10. Capillary action is the effect of water rising in a narrow tube against the force of gravity. Cohesion holds the molecules of water together as they rise.
11. Two types of mixtures are solutions and suspensions. In a solution, all the components are evenly distributed throughout the solution. In a suspension, small particles mixed with water are not dissolved but are kept suspended by the movement of water molecules.
12. A base is a compound that can form a basic solution when dissolved.
13. Acidic solutions have a lower pH than pure water. This is due to their greater concentration of H^+ ions than pure water. Pure water has a pH of 7 and contains equal concentrations of H^+ and OH^- ions.
14. Strong acids and bases are dangerous to cells. Buffers are dissolved compounds that help prevent sharp, sudden swings in pH.

Section Review 2-3

1. carbohydrates 2. proteins 3. lipids 4. nucleic acids
5. proteins 6. proteins 7. carbohydrates 8. nucleic acids 9. glycerol 10. monosaccharides 11. ribonucleic acid (RNA); deoxyribonucleic acid (DNA)
12. Proteins 13. saturated 14. Carbon atoms have 4 valence electrons and therefore can form 4 strong, stable, covalent bonds. Carbon can also bond with other carbon atoms, which gives it the ability to form chains and rings. These carbon-carbon bonds can be single, double, or triple bonds.
15. Both plastics and polysaccharides are organic polymers, or chains of carbon-containing molecules. Polysaccharides are naturally occurring molecules found in the body, while plastics are synthetic molecules made in factories or labs.

Teaching Resources / Chapter 2

Section Review 2-4

1. release 2. broken 3. activation energy
4. substrates 5. A catalyst lowers the activation energy. An enzyme is an example of a catalyst.
6. A chemical reaction involves reactants changing to products.
7. Path A has the greatest activation energy.
8. Graph I shows a reaction that absorbs energy.
9. Pathway B is the pathway without enzyme, and Pathway C is the pathway with enzyme. The enzyme lowers the activation energy.
10. This imaginary enzyme would work best when the body temperature is elevated. Therefore, students' answers should mention a function involving recovery from fever or reduction of body temperature after exercise.

Chapter Vocabulary Review

1. nucleus 2. element 3. compound 4. ionic, covalent 5. van der Waals forces 6. A sodium atom is a neutral particle that contains equal numbers of protons and electrons. A positive sodium ion is a sodium atom that has a positive charge because it has lost an electron.
7. Cohesion is an attraction between molecules of the same substance, and adhesion is an attraction between different substances.
8. Water is the solvent because it is the substance that the salt is dissolved in, and salt is the solute because it is the substance that is dissolved.
9. Acids are compounds that have higher concentrations of H^+ ions than pure water and have pH values below 7. Bases are compounds that have lower concentrations of H^+ ions than pure water and have pH values higher than 7.
10. A catalyst is a substance that speeds up the rate of a chemical reaction by lowering the activation energy. The substrate is the reactant in an enzyme-catalyzed reaction.
11. c 12. e 13. g 14. a 15. b 16. h 17. d 18. f 19. i 20. nucleotide 21. amino acid 22. reactants 23. activation energy 24. products

Enrichment

1. Student answers should include blood in living things. Many substances in the environment are colloids, such as smoke, fog, and dust.
2. Particles in a colloid are usually much smaller than particles in a suspension. Suspension particles tend to settle out after a period of time, and colloid particles will continue to mix with the liquid or gas that they are suspended in. They both can be made up of solids, liquids, or gases in some combination.

Graphic Organizer

1. Carbon 2–4. Oxygen, Nitrogen, Phosphorus
5. Lipids 6. Proteins 7. Nucleic acids 8. Polysaccharides 9–10. To store energy; To form biological membranes 11. Amino acids 12–13. DNA; RNA

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