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| **Chapter 10 L 1 Vocab.** | | |
| **Term** | **Definition** | **Illustration** |
| **Cell theory**  (p. 370) | 1. all living things are made up of one or more cells  2. the cell is the smallest unit of life  3. all new cells come from preexisting cells |  |
| **Macromolecule**  (P. 371) | Many small molecules joining together |  |
| **Nucleic acid**  (P. 372) | Macromolecules that form when long chains of nucleotides join together |  |
| **Protein**  (P. 373) | Long chain of amino acid molecules |  |
| **Lipid**  (P. 373) | Large macromolecule that does not dissolve in water |  |
| **Carbohydrate**  (P. 373) | 1 sugar molecule, 2 sugar molecules, or a long chain of sugar molecules |  |

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| **Chapter 10 L 2 Vocab.** | | |
| **Term** | **Definition** | **Illustration** |
| **Cell membrane**  (P. 378) | Flexible covering that protects the inside of a cell |  |
| **Cell wall**  (P. 378) | Stiff structure outside the cell membrane |  |
| **Cytoplasm**  (P. 379) | Fluid inside the cell |  |
| **Cytoskeleton**  (P. 379) | Network of threadlike proteins |  |
| **Organelle**  (P. 380) | Structures that have specialized functions |  |
| **Nucleus**  (P. 381) | Directs cell activities and contains DNA (genetic info) |  |
| **Chloroplast**  (P. 383) | Use light energy and make food  (Plant cells) |  |

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| **Chapter 10 L 3 Vocab.** | | |
| **Term** | **Definition** | **Illustration** |
| **Passive transport**  (P. 387) | Movement through cell membrane WITHOUT energy |  |
| **Diffusion**  (P. 388) | Moving from high concentration to low concentration |  |
| **Osmosis**  (P. 388) | Water molecules moving through cell membrane |  |
| **Facilitated diffusion**  (P. 389) | Substances pass through membrane using special proteins to help |  |
| **Active transport**  (P. 390) | Movement through membrane only using cell’s energy |  |
| **Endocytosis**  (P. 390) | Cell takes in a substance by surrounding it in membrane |  |
| **Exocytosis**  (P. 390 | Cell’s vesicle release contents outside of cell |  |

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| **Chapter 10 L 4 Vocab.** | | |
| **Term** | **Definition** | **Illustration** |
| **Cellular respiration**  (P. 395) | chemical reaction that turns light energy into energy (ATP) |  |
| **Glycolysis**  (P. 395) | Glucose is broken down into smaller molecules |  |
| **Fermentation**  (P. 396) | Reaction to obtain energy from food when oxygen levels are low |  |
| **Photosynthesis**  (P. 397) | A series of chemical reactions that convert light, water, and CO2 into glucose and give off oxygen | http://www.earthtimes.org/newsimage/photosynthesis-dream-renewable-energy_1_02842012.jpg |