



Name _____

Period _____

Date _____

SECTION
4.1

CHEMICAL ENERGY AND ATP
Section Quiz

Choose the letter of the best answer.

- _____ 1. Which of the following statements is true for *all* cells?
- a. They use solar energy.
 - b. They use photosynthesis.
 - c. They use chemical energy.
 - d. They use chemosynthesis.
- _____ 2. Which phrase best describes the function of the ATP molecule?
- a. stores energy
 - b. carries energy
 - c. absorbs energy
 - d. converts energy
- _____ 3. Where does the chemical energy to produce ATP come from?
- a. the conversion of ATP to ADP
 - b. the use of chemicals from the environment to build sugars
 - c. the addition of a phosphate group to ATP
 - d. the breakdown of carbon-based molecules into smaller molecules
- _____ 4. Energy is released from an ATP molecule for cellular processes when it
- a. has a phosphate group removed.
 - b. stores an extra phosphate group.
 - c. converts a phosphate group to ADP.
 - d. produces a sugar molecule.
- _____ 5. Which of the following is the source of energy used in chemosynthesis?
- a. sunlight
 - b. heat from hydrothermal vents
 - c. chemical compounds
 - d. amino acids

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CHAPTER 4
Cells and Energy