

Assessment

Section Quiz**Section: Energy in the Earth System****MATCHING**

In the space provided, write the letter of the definition that best matches the term or phrase.

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|------------------------|---|
| _____ 1. biosphere | a. a system in which both matter and energy are exchanged with the surrounding |
| _____ 2. atmosphere | b. the part of Earth where life exists |
| _____ 3. closed system | c. a mixture of gases that surrounds a planet or moon |
| _____ 4. hydrosphere | d. the mostly solid, rocky part of Earth |
| _____ 5. geosphere | e. the portion of Earth that is water |
| _____ 6. open system | f. a system in which energy, but not matter, is exchanged with the surroundings |

MULTIPLE CHOICE

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- _____ 7. Which of the following is NOT an important energy source for Earth systems?
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| a. sun | c. gravity |
| b. nitrogen | d. convection |
- _____ 8. Which of the following elements is NOT involved in the cycling of energy and matter on Earth?
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| a. phosphorus | c. gold |
| b. nitrogen | d. carbon |
- _____ 9. Evaporation, condensation, and precipitation are part of
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| a. the water cycle. | c. the geosphere. |
| b. transpiration. | d. the atmosphere. |
- _____ 10. Energy is transferred between systems, but it cannot be created or destroyed, according to the
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| a. energy budget. |
| b. first law of thermodynamics. |
| c. second law of thermodynamics. |
| d. third law of thermodynamics. |

