

1. According to the law of conservation of energy, energy cannot be _____.
 - A. created or destroyed
 - B. transformed
 - C. used
 - D. wasted

2. The greatest percentage of energy used in the United States is utilized for _____.
 - A. transportation
 - B. heating homes and operating appliances
 - C. manufacturing products and producing food
 - D. providing electricity to businesses and office buildings

3. Which of the following contains the most usable energy per kilogram?
 - A. asphalt
 - B. coal
 - C. natural gas
 - D. petroleum

4. Which of the following occurs first during the conversion of fossil fuels to electricity in an electrical power station?
 - A. Fuel is burned in a combustion chamber.
 - B. Thermal energy heats water and produces steam.
 - C. Steam causes the blades of a turbine to spin.
 - D. A spinning turbine shaft rotates magnets and generates electric current.

5. Which of the following statements about fossil fuels is true?
 - A. Fossil fuels are renewable resources.
 - B. The smoke produced from burning fossil fuels contains particulates.
 - C. The processes used to obtain fossil fuels are not hazardous to workers.
 - D. The overall efficiency of using fossil fuels to produce electricity is 65 percent.