

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.