

Skills Worksheet

Concept Review**MATCHING**

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

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|---|---|
| _____ 1. plant material, manure, and wood | a. passive solar heating |
| _____ 2. uses collectors with moving parts to capture the sun's energy | b. ocean thermal energy conversion (OTEC) |
| _____ 3. saves energy | c. alternative energy |
| _____ 4. energy sources that are still in development | d. biomass fuel |
| _____ 5. energy produced from moving water | e. fuel cell |
| _____ 6. uses the sun's energy to heat something directly, without moving parts | f. active solar heating |
| _____ 7. energy from heat in Earth's interior | g. energy efficiency |
| _____ 8. uses low pressure and warm ocean water to boil colder ocean water | h. energy conservation |
| _____ 9. percentage of energy that does useful work in a system | i. hydroelectric energy |
| _____ 10. uses hydrogen as an energy source | j. geothermal energy |

MULTIPLE CHOICE

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

- _____ 11. Wind, moving water, sunlight, and heat from Earth's interior are sources of
- | | |
|------------------------|--------------------------|
| a. alternative energy. | c. renewable energy. |
| b. geothermal energy. | d. ocean thermal energy. |
- _____ 12. Which of the following uses solar collectors to heat water?
- | | |
|--------------------------|-----------------------|
| a. passive solar heating | c. photovoltaic cells |
| b. active solar heating | d. all of the above |

Concept Review *continued*

- _____ **13.** Which of the following is the fastest-growing source of energy in the world?
- a.** passive solar heating
 - b.** photovoltaic cells
 - c.** fuel cells
 - d.** wind power
- _____ **14.** Which of the following is a major source of biomass fuel in developing countries?
- a.** wood
 - b.** dung
 - c.** corn
 - d.** both (a) and (b)
- _____ **15.** A geothermal power plant gets energy by
- a.** pumping heated water or steam from rock formations.
 - b.** circulating fluid underground.
 - c.** holding water behind a dam.
 - d.** using methane from decomposition.
- _____ **16.** Tidal power, hydrogen fuel cells, and ocean thermal energy conversion are sources of
- a.** alternative energy.
 - b.** geothermal energy.
 - c.** nonrenewable energy.
 - d.** hydroelectric energy.
- _____ **17.** Which of the following descriptions of hybrid cars is correct?
- a.** Hybrid cars do not use gasoline engines.
 - b.** Hybrid cars have not been made yet.
 - c.** Hybrid cars are energy-efficient.
 - d.** Hybrid cars rely on biomass fuel.
- _____ **18.** Which of the following statements about hydrogen as a fuel source is correct?
- a.** The amount of hydrogen on Earth is too small to meet our fuel needs.
 - b.** Hydrogen can be burned as a fuel or used to produce electricity chemically.
 - c.** When hydrogen is burned, it releases pollutants.
 - d.** Generating hydrogen by burning fossil fuels is inexpensive.
- _____ **19.** Sunlight falls on a semiconductor, causing it to release electrons, in a
- a.** photovoltaic cell.
 - b.** fuel cell.
 - c.** battery.
 - d.** solar collector.
- _____ **20.** People can conserve energy in their daily lives by driving a vehicle
- a.** mostly for short distances.
 - b.** instead of taking a bus or train.
 - c.** with a large gas tank.
 - d.** that is fuel-efficient.