

1. Why are fossil fuels more widely used than solar energy?

- a. Solar energy is harder to find.
- b. Fossil fuels are much cheaper.
- c. Fossil fuels are more abundant.
- d. The sun's energy can never be harnessed.

2. Why is solar energy considered a renewable energy source?

- a. You can get money back from the government if you put solar panels on your house.
- b. Solar energy is cheaper than fossil fuels.
- c. The sun's energy will not run out for billions of years.
- d. Solar energy can be used to recharge batteries.

3. What device might you use to heat a building?

- a. A thermal collector
- b. A photovoltaic cell
- c. A solar sail
- d. A photon

4. Photovoltaic cells convert sunlight into:



- a. Heat
- b. Motion
- c. Light
- d. Electricity

5. In the term "photovoltaic cell," what can you infer about the prefix "photo-?"

- a. It refers to light
- b. It refers to heat
- c. It refers to electricity
- d. It refers to motion

6. Which of the following is a true statement about semiconductors?

- a. Electricity can pass through them easily
- b. Electricity can pass through them with some effort
- c. Electricity cannot pass through them at all
- d. Solar energy can pass through them, but electric current cannot

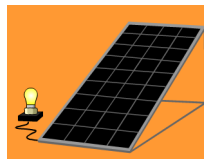
7. Which of the following terms best describes an electrical current?

- a. A flow of protons
- b. A flow of atoms
- c. A flow of electrons
- d. A flow of neutrons

8. How much of the sun's energy can be converted to electricity by a photovoltaic cell?

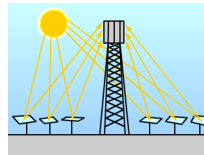
- a. One to two percent
- b. 15 to 20 percent
- c. 25 to 30 percent
- d. 50 to 55 percent

9. Which of the following terms best describes photovoltaic cells as they currently exist?



- a. Inexpensive
- b. Primitive
- c. Backward
- d. Inefficient

10. Which of the following cities would most likely make use of concentrating solar power plants?



- a. London, UK
- b. Seattle, Washington
- c. New York, New York
- d. Phoenix, Arizona