

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?

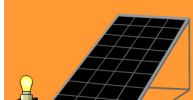
- A. Electricity can pass through them easily
- B. Electricity can pass through them with some effort
- C. Electricity cannot pass through them at all
- D. Solar energy can pass through them, but electric current cannot

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

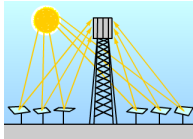
- A. A flow of protons
- B. A flow of atoms
- C. A flow of electrons
- D. A flow of neutrons

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