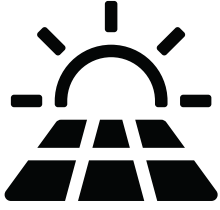


Name: _____ Date: _____



SUMMATIVE ASSESSMENT

1. Which of the following best describes how solar panels work?

- A) They convert electricity into sunlight.
- B) They trap sunlight and turn it into heat.
- C) They use photons to excite electrons in the panel's material, creating electricity.
- D) They reflect sunlight back into the atmosphere.

2. What does the efficiency of solar panels tell us?

- a) How much electricity they use
- b) How good they are at making electricity from sunlight
- c) How much they cost
- d) How heavy they are

3. What can make solar panels make more electricity?

- a) Facing the ground
- b) Facing the sun directly and tilted a certain way
- c) Facing away from the sun

4. Why do solar panels make more electricity when facing the sun directly and tilted a certain way?

- a) They get more air flow
- b) They can store more energy
- c) They receive more sunlight that way

5. What makes a solar panel produce more or less electricity?

6. What are solar panels and how do they help take care of the Earth?

7. Can you draw a picture of how sunlight from the sun travels and interacts with a solar panel? Show how the photons travel from the sun to the solar panel and are converted into electricity that we can use. Also, label the following parts of your diagram: the photons, the sun, and the solar panel.

