

Name _____

Solar Sparks: Can We Harness Photosynthesis for Energy?

Multiple Choice Questions

1. What is the primary output of photosynthesis in plants?
 - a) Oxygen
 - b) Carbon dioxide
 - c) Glucose
 - d) Water

2. What makes photosynthesis an efficient process for energy conversion?
 - a) It converts 100% of sunlight into energy.
 - b) It happens during the night and day.
 - c) It can be controlled by humans.
 - d) It converts about 6% of sunlight into chemical energy.

3. Which of the following is a challenge in using photosynthesis for energy generation?
 - a) Abundant sunlight
 - b) Fast energy production
 - c) Space and location requirements
 - d) Dependence on artificial light

4. What is the primary goal of artificial photosynthesis?
 - a) To generate oxygen
 - b) To replicate natural photosynthesis
 - c) To increase the efficiency of photosynthesis
 - d) To create synthetic plants

5. How can genetic engineering contribute to using photosynthesis for energy production?
 - a) By speeding up the process of photosynthesis
 - b) By making plants more colorful
 - c) By enhancing photosynthetic efficiency
 - d) By replacing sunlight with artificial light

