Producers: Energy Capturers

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Understanding Plants and Photosynthesis

Name: _____ Date: _____

Answer the following questions based on what you've learned about producers and energy flow in ecosystems.

1. What is photosynthesis and how do plants use it to capture energy? Please explain in your own words.

2. What is the role of chlorophyll in plants?

- **A.** It helps plants grow taller
- **B.** It captures sunlight for photosynthesis
- **C.** It provides plants with nutrients

3. Plants are called 'producers' because they produce energy from sunlight.

◯ True ◯ False

4. According to Genesis 1:11, God created plants that yield ___ and fruit trees bearing ___ according to their kinds.

5. Why are plants considered primary producers in an ecosystem?

- **A.** They provide food for animals
- **B.** They consume energy from other organisms
- **C.** They grow in water

6. Why is it important for us to appreciate God's design in plant energy conversion? Provide a few reasons.

7. Photosynthesis occurs only at night when there is no sunlight.

◯ True ◯ False

8. The energy captured by plants during photosynthesis is converted into ___ energy.

9. What do plants release as a byproduct of photosynthesis?

- **A.** Carbon dioxide
- **B.** Oxygen
- **C.** Nitrogen

10. What did we learn about the importance of plants in ecosystems? Please summarize in a few sentences.

Answer Key

1. Photosynthesis is the process where plants use sunlight to make their food. They take in carbon dioxide and water to create glucose and oxygen. 2. It captures sunlight for photosynthesis 3. True 4. seed, fruit 5. They provide food for animals 6. It shows us how everything in nature is connected and helps us understand how important plants are for life on Earth. It also helps us recognize God's creativity. 7. False 8. chemical 9. Oxygen 10. Plants are essential because they produce the food that sustains other living organisms. They also help clean the air by releasing oxygen, which is vital for animal life.