

Name \_\_\_\_\_

## Why Do Plants Need Carbon Dioxide to Grow

### Open-Ended Response Questions

1. Explain the role of each key ingredient (sunlight, water, carbon dioxide) in photosynthesis, and how they work together to produce glucose and oxygen.
2. Discuss the importance of glucose as a product of photosynthesis and its role in plant growth and survival.
3. Explore the environmental significance of photosynthesis, particularly in terms of the oxygen released. How does this process benefit other living organisms?
4. Imagine you are a botanist studying the effects of carbon dioxide levels on plant growth. What experiments could you conduct, and what would you hope to discover about the relationship between CO<sub>2</sub> and plant health?

