

Name \_\_\_\_\_

## Sunlight: The Magic Ingredient for Plant Growth

### Open-Ended Response Answer Key

1. In a world without sunlight, plants would be unable to perform photosynthesis, leading to their inability to produce glucose, oxygen, and energy. This would affect the entire food chain and result in the decline of oxygen levels, impacting all living creatures.
2. Photosynthesis is a process where plants convert sunlight into energy, using chlorophyll to capture the sunlight's energy and create glucose and oxygen. This process is vital because it provides energy for plants and releases oxygen for animals and humans to breathe.
3. Examples of indoor plants with varying light requirements include snake plants (low light), pothos (low to moderate light), and succulents (bright indirect light).
4. Humans can help indoor plants receive adequate light by placing them near windows, using reflective surfaces, rotating them to ensure even light exposure, and using artificial grow lights when necessary.

