

Name _____

The Magic of Photosynthesis: How Plants Make Their Own Food

Short Answer Key

1. The two main products of the light-dependent reactions are ATP and NADPH.
2. Chlorophyll captures sunlight and is green because it reflects green light while absorbing other colors.
3. The carbon cycle connects photosynthesis and respiration by cycling carbon dioxide between plants (photosynthesis, where they absorb CO₂) and animals (respiration, where they release CO₂).
4. Light intensity, temperature, and carbon dioxide concentration.
5. Orchids and fungi can perform photosynthesis; they use different pigments to capture light energy, such as red or purple pigments.

