

Name _____

The Magical Journey: What Happens to Plant Food Made Through Photosynthesis?

Short Answer Key

1. Chloroplasts are specialized structures within plant cells where photosynthesis occurs. They are located in the cytoplasm of plant cells.
2. Photosynthesis consists of two main stages: the light-dependent reactions in the thylakoid membranes and the Calvin cycle in the stroma of chloroplasts.
3. Excess glucose produced during photosynthesis is converted into starch, which serves as an energy storage molecule for the plant.
4. Photosynthesis connects plants to the broader ecosystem by providing food for herbivores and, subsequently, for carnivores and omnivores in the food web.
5. Cellular respiration in plants breaks down glucose to produce ATP, which is used to power various cellular processes.

