

Name _____

How Carbon Gets from the Air into Plants and Trees

Short Answer Key

1. Stomata are tiny openings on plant leaves that allow carbon dioxide from the air to enter the plant.
2. Carbon dioxide moves from the air into plant cells during photosynthesis through a process called diffusion, where it travels from areas of high concentration (outside the leaf) to areas of low concentration (inside the leaf).
3. The glucose produced during photosynthesis is used for energy, growth, and can also be stored by the plant for future use.
4. Oxygen release during photosynthesis is essential for humans and animals because it provides the oxygen we need for respiration and other life processes.
5. Understanding the process of carbon uptake by plants is important for the environment because it contributes to the carbon cycle, which regulates the flow of carbon among Earth's atmosphere, oceans, land, and living organisms, and plays a critical role in climate regulation.

