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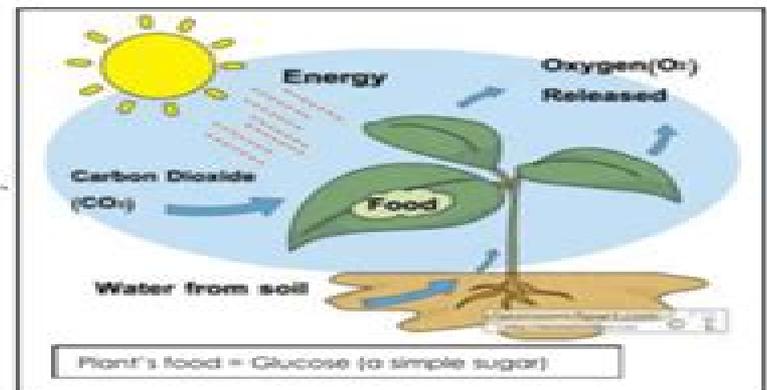
Evidence of Photosynthesis Lab 1

Chapter 3 Lesson 1

Background Information: PHOTOSYNTHESIS is the process during which a plant's chlorophyll traps light energy and sugars are produced. In plants, photosynthesis occurs only in cells with chloroplasts. The chemical reaction for photosynthesis is:



Green plants use energy from light to combine carbon dioxide and water to make food. **Light energy** is converted to chemical energy and is stored in the food that is made by green plants. The light used in photosynthesis is absorbed by a green pigment called **chlorophyll**. Each foodmaking cell in a plant leaf contains chlorophyll in small cells called **chloroplasts**. In chloroplasts, light energy causes water drawn from the soil to split into molecules of hydrogen and oxygen. In a series of chemical reactions, the hydrogen combines with carbon dioxide from the air, forming a simple sugar. Oxygen from the water molecules is given off in the process. From sugar, along with nutrients from the soil, green plants can make starch, fat, protein, vitamins, and other complex compounds necessary for life. Photosynthesis supplies the chemical energy needed to produce these compounds.



When a person exhales, carbon dioxide is released.

Bromothymol blue solution, BTB, can indicate the presence of carbon dioxide in the water. When little or no carbon dioxide is present, BTB will show a blue color. Depending upon the amount of carbon dioxide, BTB will change to green or yellow. Yellow indicates more carbon dioxide.

Evidence Of Photosynthesis Lab Key

Victor M. Corman



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