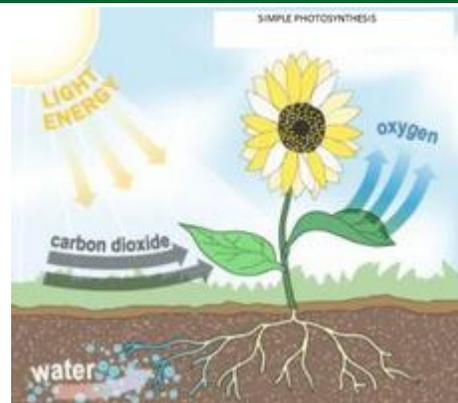


Simple Photosynthesis

By Cindy Grigg

¹ Each part of a plant has its own job. Leaves have the job of photosynthesis. This process lets leaves capture the energy of sunlight and use it to make food. Nearly all plant leaves are green because they contain a chemical called chlorophyll. Chlorophyll is found in chloroplasts inside each plant cell. Chloroplasts absorb the energy of sunlight.



² Carbon dioxide is a gas in the air. Tiny openings in the plant's leaves called stomata let carbon dioxide come into the leaf. Water is taken in by the plant's roots. It moves into all the cells of the plant. Chlorophyll, using the sun's energy, changes the water and carbon dioxide into a sugar called glucose. Plants use this food to live and grow.

³ How do plants change water and carbon dioxide into food? Using the energy from the sun, the water inside the plant's cells is split into its two parts. Water is made of one atom of oxygen and two atoms of hydrogen. Carbon dioxide splits, too. It splits into carbon and oxygen.

⁴ The plant uses some of the oxygen and combines it with hydrogen and carbon. These three elements combine to make glucose, a kind of sugar. Some of the oxygen is not needed by the plant. It is sent out of the plant through the stomata. People and animals breathe it in. Then they breathe out carbon dioxide. Plants use it to make more glucose.

⁵ Plants and animals are partners. Plants give animals oxygen to breathe. Animals give plants carbon dioxide. When people and animals eat plants, they use the glucose the plants made for their own food. It all starts with energy from the sun.

Name _____

Science Pd. _____

Simple Photosynthesis

<p>1. In what part of the plant does photosynthesis usually take place?</p> <p><input type="radio"/> A Leaves</p> <p><input type="radio"/> B Stem</p> <p><input type="radio"/> C Roots</p>	<p>2. Chlorophyll is found in _____ in the plant's cells.</p> <p>_____</p> <p>_____</p>
<p>3. What is an effect of photosynthesis?</p> <p><input type="radio"/> A Oxygen is released into the air for people and animals to breathe.</p> <p><input type="radio"/> B Food is made for plants and animals.</p> <p><input type="radio"/> C Carbon dioxide is taken out of the air.</p> <p><input type="radio"/> D All of the above</p>	<p>4. What is glucose made of?</p> <p><input type="radio"/> A Chlorophyll, energy, and carbon</p> <p><input type="radio"/> B Carbon, hydrogen, and oxygen</p> <p><input type="radio"/> C Water, hydrogen, and oxygen</p> <p><input type="radio"/> D Chlorophyll, chloroplasts, and sugar</p>
<p>5. Which happens last in the process of photosynthesis?</p> <p><input type="radio"/> A Oxygen exits the leaf.</p> <p><input type="radio"/> B The plant captures the sun's energy.</p> <p><input type="radio"/> C Water is taken up by the plant's roots.</p> <p><input type="radio"/> D Carbon dioxide enters the leaf.</p>	