Photosynthesis
Pre Lesson Activity

Grade level: 5th grade (7th)

Lab Description: Students will know plants use carbon dioxide, water and energy from sunlight to build molecules of sugar and release oxygen and how the sugar, water and minerals are transported in a vascular plant.

Objective/standard: Plants use carbon dioxide and energy from sunlight to build molecules of sugar and release oxygen.
ELD: Understands and follows directions

Strategies: Think-Build-Square
Think-Pair-Share

Steps: 1. Students get two sheets of model carbon dioxide and water molecules.
2. Students color molecules.
3. Students cut out the molecules into individual carbon dioxide and water molecules.
4. Show the diagram of a glucose molecule.
5. Ask students to cut the molecules into atoms - 6 C, 18 O, 12 H
6. Rearrange the atoms to make the glucose molecule.
7. Ask what are the leftover atoms and where do they go?
8. Have students glue two oxygen atoms side-by-side to form oxygen molecules.

Questions: What is CO₂? What is H₂O? What is C₆H₁₂O₆? Where does it go? What is O₂?

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