

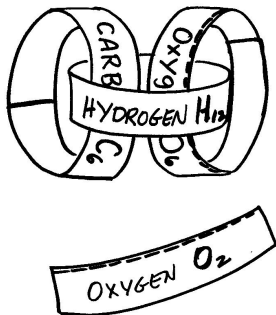


Broadcast Activity

Glucose Molecule Race Game

Part 1:

The groups (representing plants under going photosynthesis) will race to see who can “produce” the most Glucose molecules within a designated time period. Students have to cut the O₂ / O₆ strip along the dotted line to represent the liberating of Oxygen into the atmosphere during photosynthesis. They make a “Glucose molecule” three ring chain by taping the C₆, H₁₂, and O₆ strips together. The students should make at least 8 molecules per group in order to go to part 2 of the game.



Part 2:

Pass out the Food Chain cards. Each group will distribute cards to act out a simple food chain. The “Producer” will start out with all the Glucose molecules the group made. We will discuss the reasons for molecule distribution as we go. They will give half of their molecules to the organism that is next in the food chain. Continue until the last creature (the human) is left with the fewest molecules. The object of this “game” (which is more a demonstration) is to reinforce the concept that plants are the originators of all food. They make, use, and store food. The next organism that eats the plants will benefit from only stored food energy. Each organism higher up the food chain will have less and less stored food energy than was originally created by the producers. This is a difficult and complex concept in ecological studies; however, it is used in conjunction with photosynthesis and respiration in this program to emphasize the critical role plants play in sustaining life as we know it.