

Photosynthesis



Real World Energy
Learner Activity Instructions
Grade Level: 9-12

What you will learn:

Learners are introduced to the process of photosynthesis through the readings of the backgrounder and answering questions that follow it.

What you will need:

For this activity, you will need to print the learner worksheet and backgrounder (or ask your educator to print it for you).

Background

Photosynthesis is an extremely important process in nature. Without photosynthesis, there would likely be no life on Earth. Through photosynthesis, plants are able to make their own food from nothing more than water and carbon dioxide, with the help of energy from the sun. The food source that plants produce is in the form of glucose. Glucose is the basic food of all life forms on the planet. It is the main fuel for all of the activities of cells. Green plants are the only organisms that make their own glucose. Green plants also require glucose to survive. How does the plant survive at night when there is no sunshine to help make glucose? How do the roots survive if they are never exposed to sunlight?

How to do it

1. Read the backgrounder on photosynthesis.
2. Answer the questions on the learner worksheet.

As you explore and complete this activity think about these questions:

1. Why is deforestation an atmospheric environmental concern?
2. What would be one easy way to improve the air quality in homes or offices?