

Photosynthesis

Internet Activity

Answer all questions using complete sentences or by writing out the question and the answer.

Illuminating Photosynthesis

- Type in the following link:
<http://www.pbs.org/wgbh/nova/methuselah/photosynthesis.html#>
 - Read the introduction entitled "Illuminating Photosynthesis" by Rick Groleau
 - Click on the link that reads: "***Go to Illuminating Photosynthesis.***"
 - Read the introductory poem.
 - Click on "***The Cycle***" at the top of the box
1. Click on each of the following items, and explain what happens:
 - a. The ***shade*** over the ***window***.
 - b. The ***container*** of ***water***:
 - c. The ***child***:
 2.
 - a. What ***gas*** does the child provide for the plant to use?
 - b. What ***gas*** does the plant provide for the child to use?
 - c. Will the plant continue to produce this gas if the shade over the window is closed? (try it out to see!)
 3. According to this animation, what 3 main things does the plant need for ***photosynthesis*** to occur?
- Click on "***The Atomic Shuffle***" at the top of the box.
 - Read the introductory poem, and click on "***next***"
4. What type of molecule is shown in the leaf?
 5. Draw one of the molecules from #4, as it is shown in the leaf.
 6. According to the reading, these molecules "do not come from the tap." What two places do they come from?
- Click on "***next***" and watch carefully. You may click on "***replay***" to watch this again.
7.
 - a. What is "stripped" from each water molecule?
 - b. From where does the cell get the energy to do this?
 - c. The stripped molecules form pairs. Where does it go after this?
- Click on "***next***"

8. a. What gas enters the leaf?
b. This gas enters through “holes” in the leaf. What are they called?

Click on “*next*”

9. What molecule is formed *once again*?

Click on “*next*”

10. Another molecule is formed (“and boy is it sweet”). Draw this molecule as shown.

11. What is the name of this molecule?

Click on “*Three Puzzlers*” at the top of the box.

12. Answer each of the following questions, and explain *in your own words*.

- a. Can a tree produce enough oxygen to keep a person alive? Explain.
b. Can a plant stay alive without light?
c. Can a plant survive without oxygen? Explain.