

Photosynthesis

Internet Activity

Name _____

Date _____

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: “*Printable Version.*”
 - Read the introductory poem.
 - Click on “*The Cycle*”
1. Click on the picture and explain the functions of each of the following items:
 - 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?

 3. According to this animation, what 3 main things does the plant need for *photosynthesis* to occur?
 - (1) _____
 - (2) _____
 - (3) _____
- Click on “*The Atomic Shuffle*”
 - Read the introductory poem, then scroll down the page to answer the following questions:

4. What type of molecule is shown in the leaf? _____

5. Draw one of the molecules below, 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?

(1) _____ (2) _____

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?

8. a. What gas enters the leaf? _____

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

9. What molecule is formed *once again*? _____

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



11. What is the name of this molecule? _____

Click on “*Three Puzzlers*”

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.

13. **On the back of this paper, summarize the process of photosynthesis (including the steps) using the information you learned from this activity.**