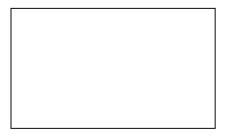
## Photosynthesis Internet Activity

| Name  | Class   |
|---|---|
| Date  | Period #  |
| Illuminating Photosynthesis   |   |
| Type in the following link:<br><u>http://www.pbs.org/wgbh/nova/methus</u> | elah/photosynthesis.html#                                   |
| □ Read the introduction entitled "Illumin                                 | ating Photosynthesis" by Rick Groleau                       |
| Click on the link that reads: " <i>Go to Illu</i>                         | uminating Photosynthesis."                                  |
| Read the introductory poem.   |   |
| Click on " <i>The Cycle</i> " at the top of the                           | box   |
| 1. Click on each of the following items, an                               | nd explain what happens:                                    |
| a. The <i>shade</i> over the <i>window</i> :                              |   |
| <b>b.</b> The <i>container</i> of <i>water</i> :                          |   |
| <b>c.</b> The <i>child</i> :  |   |
| 2. a. What <i>gas</i> does the child provide for t                        | he plant to use?  |
| <b>b.</b> What <i>gas</i> does the plant provide for                      | the child to use?   |
| <b>c.</b> Will the plant continue to produce th out to see!)              | his gas if the shade over the window is closed? (try it     |
| <b>3.</b> According to this animation, what 3 ma occur?                   | ain things does the plant need for <i>photosynthesis</i> to |
| (1)   |   |
| (2)   |   |

(3)\_\_\_\_\_

- 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 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) \_\_\_\_\_

- 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?

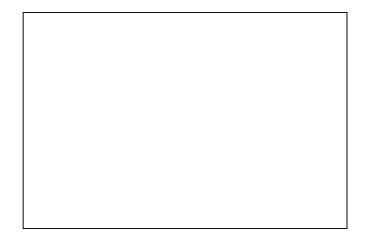
**b.** This gas enters through "holes" in the leaf. What are they called?

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 below 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.