

Name \_\_\_\_\_ Block \_\_\_\_\_ Date \_\_\_\_\_

### Photosynthesis Online Scavenger Hunt

- Investigate the process of photosynthesis by exploring the “Illuminating Photosynthesis” interactive (<http://www.pbs.org/wgbh/nova/nature/photosynthesis.html>).
- Answer the following questions to complete the scavenger hunt.

#### The Cycle

1. What gas does the girl breathe out and give to the plant? \_\_\_\_\_
2. What does the plant receive once the shade is lifted? \_\_\_\_\_
3. What does the plant receive from the watering can? \_\_\_\_\_
4. If one of the substances above are missing, does anything happen? \_\_\_\_\_
5. What does the girl eventually receive from the plant? \_\_\_\_\_
6. How is a plant “breathing” different from a human breathing? \_\_\_\_\_

#### Atomic Shuffle

1. Why is photosynthesis so important to both plants and other life on Earth?  
\_\_\_\_\_
2. How does the process of photosynthesis begin?  
\_\_\_\_\_
3. How do plants get water?  
\_\_\_\_\_
4. What happens to the water molecules when a plant is exposed to sunlight?  
\_\_\_\_\_
5. Where do the oxygen atoms go as a result of #4?  
\_\_\_\_\_
6. What gas enters the leaf? \_\_\_\_\_
7. What is the ultimate source of carbon dioxide for plants?  
\_\_\_\_\_

8. What is the goal for photosynthesis?

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What is the form of the food that plants keep stored inside of them? \_\_\_\_\_

9. What is the chemical equation for photosynthesis?

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**Three Puzzlers**

Describe one interesting fact that you learned from each of the three puzzler questions, and explain how it's related to photosynthesis.

1. \_\_\_\_\_

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2. \_\_\_\_\_

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3. \_\_\_\_\_

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