

Name: _____ Period: _____ Date: _____ BIN: _____

Extra Assignment: Photosynthesis WebQuest

When providing the best possible answer to the following questions please apply all learned scientific techniques and procedures, do not use abbreviations, use proper scientific terminology, show work for all mathematical calculations, use all significant figure and scientific notation rules, apply appropriate writing strategies, and note that at all times spelling counts. Your ability to meet these and all established classroom expectations, including labeling of BINs, providing heading information, and your ability to follow directions may be included in computation of grade.

1. Animated Cartoon

Site Location: http://www.pbs.org/wgbh/nova/methuselah/phot_cycle2.html

Click on the picture to watch the cartoon if it has not already started.

2-1. What does the plant release that the kid uses?

2-2. What does the kid provide for the plant besides opening the window shade and watering it?

2-3. Click on the atomic shuffle

- a. Photosynthesis, the trapper of _____;
it's needed for life to subsist. All plants use the process to make _____ without it most life would end.

2. Photosynthesis, energy and life

Site Location: <http://www.ftexploring.com/photosyn/photosynth.html>

3-1. What do you shuffle around inside chloroplasts in order to get glucose (sugar) and oxygen?

3-2. Why is photosynthesis important to you?

3-3. What is an autotroph?

3-4. Why are the people in the pictures hugging trees??

3. The flow of energy

Site Location: <http://www.ftexploring.com/me/me2.html>

4-1. The flow of energy from the sun to the plants to the plant eaters to the meat eaters is called what?

4-2. Define the following: Primary Producers, Herbivores, Carnivores, and Decomposers.

4-3. Are people a) herbivores, b) carnivores, or c) omnivores?

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4. Photosynthesis Puzzlers

Site Location: http://www.pbs.org/wgbh/nova/methuselah/phot_puzzlers.html

Answer the questions on the puzzlers and see how you do.

5-1. Can one tree release enough oxygen to keep a person alive?

5-2. Can a plant stay alive without light?

5-3. Will a plant survive without oxygen? Why or why not?

5. Photosynthesis

Site Location: http://www.phschool.com/science/biology_place/biocoach/photosynth/overview.html

Please read the information on this website about photosynthesis.

6-1. What is the equation for photosynthesis?

6-2. What is the byproduct of photosynthesis?

6. Photosynthesis Game

Site Location: <http://earthguide.ucsd.edu/earthguide/diagrams/photosynthesis/photosynthesis.html>

7-1. Watch the animation

7. Leaves @ Fall

Site Location: <http://photoscience.la.asu.edu/photosyn/education/colorchange.html>

8-1. Why do leaves change their color during fall? Are they losing their chlorophyll?

8. Relationship of Photosynthesis and Respiration

Site Location: http://www.accessexcellence.org/RC/VL/GG/ecb/photosynthesis_respiration.php

9-1 What is the equation for photosynthesis?

9-2 What is the equation for respiration?

9-3 How is photosynthesis and respiration related to each other?

9. A Walk in the Woods

Site Location: <http://www.urbanext.uiuc.edu/woods/index.html>

Congratulations you have worked hard learning about photosynthesis and respiration. Reward yourself with a relaxing walk in the woods.

YOU WILL NEED HEADPHONES.

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Extra Assignment: Photosynthesis WebQuest Answer Sheet

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Site 1. Animated Cartoon

1-1. _____

1-2. _____

1-3. Photosynthesis, the trapper of _____;

it's needed for life to subsist. All plants use the process to make _____ without it most life would end.

Site 2. Photosynthesis, energy and life

2-1. _____

2-2. _____

2-3. _____

2-4. _____

Site 3. The flow of energy

3-1. _____

3-2. Primary Producer: _____

Herbivore: _____

Carnivore: _____

Decomposer: _____

3-3. _____

Site 4. Photosynthesis Puzzlers

4-1. _____

4-2. _____

4-3. _____

Site 5. Photosynthesis

5-1. _____

5-2. _____

Site 6. Photosynthesis Game

6-1. Did you watch the animation? Yes or No (circle one)

Site 7. Leaves @ Fall

7-1. _____

Size 8. Relationship of Photosynthesis and Respiration

8-1. _____

8-2. _____

8-3. _____