

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

## Photosynthesis Web Quest

Directions Follow the links to different websites to gain insight on the process of photosynthesis! Write your answers with complete sentences on this worksheet. 25 points graded on correctness, neatness and complete sentences.

**Website 1:** [http://www.sambal.co.uk/?page\\_id=218](http://www.sambal.co.uk/?page_id=218)

1. What is a producer? Why are plants called “producers” (what are they producing)?
2. What is the definition of photosynthesis?
3. Where does the carbon for photosynthesis come from?
4. What do plants do with extra glucose they make?
5. What does photosynthesis require?
6. What does photosynthesis produce?

**Website 2:** <http://photosynthesiseducation.com/photosynthesis-for-kids/>

7. Write the balanced equation for photosynthesis.
8. (a) Where does the plant get the necessary reactants (molecules) to make sugar? (Hint there should be two different places listed).  
(b) Through what means (where/how) do these reactants enter the plant?

**Website 3:** <http://www.ftexploring.com/photosyn/chloroplast.html>

8. Where (in what organ) of a plant does photosynthesis happen?
9. Specifically in which organelle does photosynthesis take place?
10. What is a granum?
11. What is a thylakoid?

**Now Click on “INTRO TO PHOTOSYNTHESIS” at the top left of the page.**

12. What are the two very important things that we get out of photosynthesis? Now think...why are those SO important?
13. How does the Earth get all of its energy?
14. What is the difference between an autotroph and a heterotroph? If you can't figure it out, click on the word autotroph!
15. Why are the people at the bottom of the page hugging a tree?

**Website 4:** <http://www.esf.edu/pubprog/brochure/leaves/leaves.htm>

16. Do leaves have any other colored pigments in them, besides chlorophyll? List some of these.
17. If leaves have other pigments, then why do leaves appear only green in the spring and summer?
18. In the fall, what two environmental factors cause the chlorophyll to break down?
19. Once the chlorophyll breaks down, how does this affect the leaf color?
20. List some tree species that do not change color in different seasons.
22. How might weather affect the colors change and intensity of color in autumn leaves? Use examples.