Assignment Sheet for 8th Grade

Week of November 14, 2016

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_\_\_\_

Objective: Today I am describing how plants use energy from the Sun to produce food and oxygen through the process of photosynthesis. I will also identify and explain the primary location for photosynthesis in plants and some unicellular organisms.

**\_\_\_\_\_\_** Set up an account in Newsela access class (code: QM9K2F) Read the article, complete the writing activity and take the quiz about coral reefs. Identify the problem and design an innovative solution to solve the problem.

\_\_\_\_\_ Photosynthesis You Tube Rap**: “Photosynthesis 50 Cents in Da Club”,** <http://www.dogonews.com/2010/11/22/video-of-the-week-jam-to-the-photosynthesis-rap>

\_\_\_\_\_\_ Read Photosynthesis CK12.com take notes and complete the six activities. Record your quiz grade

\_\_\_\_\_Complete the photosynthesis lab. Save and email the data from this investigation. Also forward a six-step conclusion. Read the summary in the side bar which explains how colors of light affect plant growth.

- Read the procedure. Many of your tasks will be recorded in the journal which you will print out to turn in - there are 5 questions to answer in the journal, use complete, thoughtful sentences for each of these questions.

- You will also record your measurements in the table to be printed and turned in.

\_\_\_\_\_Photoynthesis virtual lab 2 http://www.kscience.co.uk/animations/photolab.swf

This simulation allows you to manipulate many variables. You already observed how light colors will affect the growth of a plant, in this simulation you can directly measure the rate of photosynthesis by counting the number of bubbles of oxygen that are released.

There are 3 other potential variables you could test with this simulation: **amount of carbon dioxide, light intensity, and temperature.** Keep the light settings at white light (you already tested colored light in the last experiment.)

Choose one variable and design and experiment that would test how this factor affects the rate of photosynthesis. Remember, that when designing an experiment, you need to keep all variables constant except the one you are testing. Collect data and write a summary of your findings that includes:

* Hypothesis or Experimental Question
* Data table
* Conclusions

\_\_\_\_\_\_ \_\_\_\_\_\_Notes: Power Point/ Photosynthesis (**Record in the notebook**) check out my Weebly page for the Power Point

\_\_\_\_\_\_It’s in the Cards Vocabulary: Photosynthesis, Chloroplast, Solar Energy, Glucose, ATP, Stomata, Reactants, Products, Raw materials (**Place in your notebook**) record the table below in your notebook)/ An analogy is a comparison of two things (based on something they have in common)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Term | Definition  | Your definition  | Picture | AnalogyThe \_\_\_\_would be a \_\_\_\_\_\_because Ex. **The DNA would be the queen because it contains instructions for making proteins and enzymes** |
|  |  |  |  |  |
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|  |  |  |  |  |

**Study Jam Photosynthesis and Boze Science Photosynthesis (You Tube)**

**Summarize the key points in the above videos**

**\_\_\_\_\_\_**Graphic Organizer (See Ms. Jefferson for Organizer) Photosynthesis (Products and Reactants) (**Place in your notebook**)

\_\_\_\_\_\_Photosynthesis Foldable: Parts and Functions of a Plant Cell