Photosynthesis: Why Do Leaves Change Colors?

Please Complete and **email** the information to:

Your instructor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name \_\_Amy, Jill, Mary, Pat, and Erin\_\_\_\_\_\_\_\_ Email Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Course\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Instructor of Course\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Grade Level \_\_\_\_\_\_\_\_\_\_Subject or Class \_\_Photosynthesis: “Why Do Leaves Change Colors?”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

School District \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lesson Objectives/ Standards/ Statements/ Anchors:**

1. The students will use the computer to become comfortable with it prior to taking the exam.
2. The students will become familiar with the process of photosynthesis.

**Standards:**

SP.1.a: understand and explain textual scientific presentations

SP.1.c: understand and explain non-textual scientific presentations

**Materials:** handouts, computers, headsets, whiteboard, KWL chart

**Anticipatory Set:**

Have a KWL chart drawn on the board. Ask the students the question, “Why do leaves change colors?”

**Instructional Strategies:** (cooperative learning, graphic organizers, direct instruction):

Procedures:

1. Pass out the KWL chart handouts, then begin the chart with the students. Complete as a whole group, sections K & W (see KWL chart).
2. Teachers will pass out the thinglink instructions. The students will go to thinglink.com and follow the instructions on the handout of how to create an account.
3. The students will first begin with the circular tag in the far right corner, which is the time lapse video on photosynthesis.
4. The students can then view and complete the other tags, in an order of their choice.
5. After viewing all four circular tags, the students will complete the “L” section of the KWL chart independently. .

**Closing/ Assessment:**

As a group, discuss what the students have learned about photosynthesis. Collect KWLs for student folders.

**Enrichment and additional related activities:**

1. Go to the website: [www.phschool.com/science/biology\_place/biocoach/photosynth/intro.html](http://www.phschool.com/science/biology_place/biocoach/photosynth/intro.html)

This site is more interactive and provides a more in depth look at photosynthesis. It also gives the students additional practice with dragging and dropping, which is a practice the students will need for the 2014 GED test.

1. Students can go to [www.instagrok.com](http://www.instagrok.com) and type in photosynthesis to explore additional information on this topic.
2. Extended activity: Have the students type a paragraph on photosynthesis using Microsoft Word.