

Photosynthesis



Grades: 4th & 5th

Time: 45 minutes

Overview:

The purpose of this lesson is to teach the students basic photosynthesis knowledge using computer technology and sharing web links. The students will be expected to find useful websites on the internet about photosynthesis and send them to their teacher using Dropvine.

Objective:

The objective is to teach the students basic knowledge of photosynthesis and how it works in plants. They will be able to successfully use Dropvine to send their website links to the teacher after they have completed a worksheet over photosynthesis.

Materials:

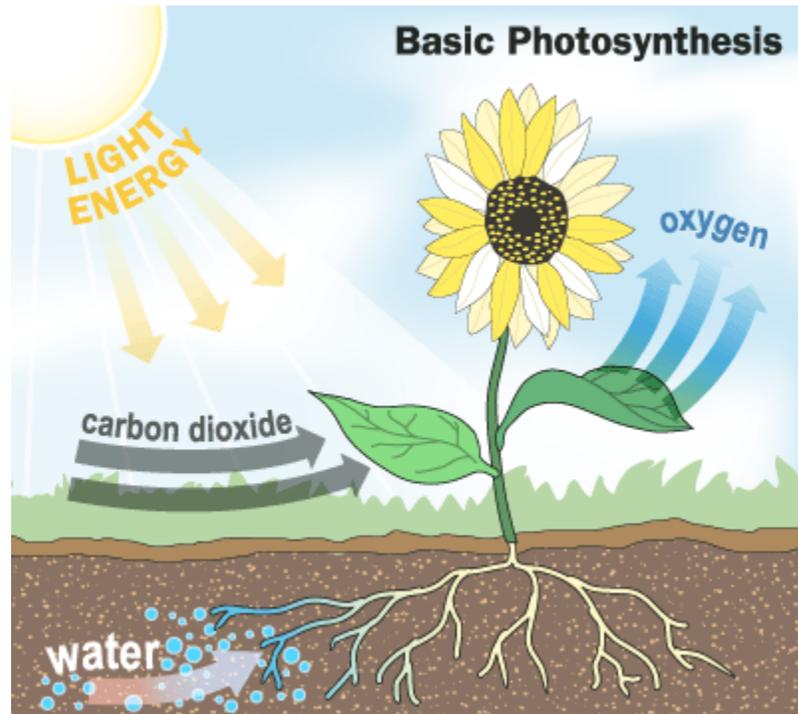
- Paper
- Photosynthesis worksheet
- Pencil
- Computer
- Email address for sending weblinks with Dropvine account

Procedure:

1. The teacher will introduce the students to photosynthesis by asking them what they already know about it. Provide examples in plants and flowers, and a brief summary to guide their research. (10 minutes)

Definition: (especially in plants) the synthesis of complex organic materials, especially carbohydrates, from carbon dioxide, water, and inorganic salts, using sunlight as the source of energy and with the aid of chlorophyll and associated pigments.

Example:



<http://ed101.bu.edu/StudentDoc/current/ED101fa10/ccburke/Images/Irrigation-photosynthesis.gif> (Bring picture up on overhead so that students can see)

2. Go to the computer lab and have the students log on. (5 minutes)
3. The teacher will explain that they will be researching photosynthesis and filling out a worksheet over information that they find as they go.
4. As the students find their information, they will be required to use Dropvine, <http://www.dropvine.com/>, to send their website link to the teacher. This will replace the students' citing their source. Any website that they use information from, they should send to the teacher. (25 minutes)
5. Review the answers to the worksheet once everyone has turned theirs in. (5 minutes)

Standards:

5.1 Students work collaboratively to carry out investigations. They observe and make accurate measurements, increase their use of tools and instruments, record data in journals, and communicate results through chart, graph, written, and verbal forms.

5.6 Students work with an increasing variety of systems and begin to modify parts in systems and models and notice the changes that result.

Rubric:

0 incorrect: A+

1-3 incorrect: A

4-6 incorrect: B+

6-8 incorrect: B

9 or more incorrect: re-do assignment.