

Talcott Mountain Science Center

Topic Botany - week 5

Home School Science

Instructor Dr. Z

Home Links

Date Oct 27, 2023

Here's some information about the activities your student did with us. Links at the bottom will help you explore further. Enjoy!

What did we do (content, skills, data collection)?

- * [Lesson about photosynthesis](#)
- * [Photosynthesis lab with spinach leaves](#)
- * [Tested a bunch of variables](#)
- * [Continued working on pine needle baskets](#)

How did we do it (materials & methods)?

* [Photosynthesis lab used a CO₂ mixture, water, plastic syringes, spoons, spinach leaves, and lamps. Spinach leaves were cut using hole punches to make small discs. The leaves were put into syringes with CO₂ mixture and plunged to fill the leaf spaces with the liquid mixture \(and remove air\). This made them sink. Under the light, that gave them all the materials for photosynthesis, and when photosynthesis happened, it produced oxygen making the leaf discs float. We counted how many floated each minute. We tested variables such as light intensity and plant species to look at factors that affect the rate of photosynthesis.](#)

Where can we find out more?

- * <https://ssec.si.edu/stemvisions-blog/what-photosynthesis>
- * <https://www.youtube.com/watch?v=CMiPYHNNg28> (video by the amoeba sisters)