

Please use the following resources to learn about photosynthesis

Watch this Video: [TED-Ed talk on photosynthesis](#)

Answer these questions:

- What are three things plants need in order to carry out photosynthesis? How do they get these things?
- Which product of photosynthesis do the plants use?
- What products of photosynthesis do people and animals use?

Activities:

You will need:

- | | |
|---|---|
| <ul style="list-style-type: none">• One or more clear glass jars with lids.• Water (tap water is fine) | <ul style="list-style-type: none">• Green plants, preferably with large leaves (and the fresher the better -- ideally from outdoors!)• A sunny place (that will stay sunny for at least an hour) |
|---|---|

Follow these directions to see evidence of leaves performing photosynthesis:

1. Completely fill your glass jar(s) with water.
2. Place your leaf or leaves in the jar, and put the lid on the jar.
3. Set the jar(s) in a sunny place. Either indoors or outdoors is fine!



4. Observe the leaves and jars now: sketch, photograph, or describe in words.
5. Wait for 1 hour, and observe the leaves and jars again. What do you notice?
6. Continue checking hourly. What changes do you observe?



Photo 1: Start.



Photo 2: After 1 hour

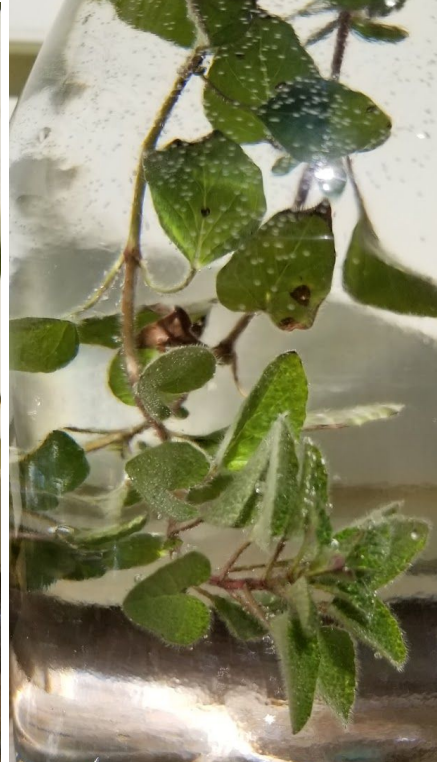


Photo 3: After 2 hours

Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** Plants produce oxygen gas as a byproduct of photosynthesis.

- **Evidence:**

- **Reasoning:**

2. **Claim:** Normally, plants have some carbon dioxide in their leaves.

- **Evidence:**

- **Reasoning:**