

Photosynthesis

- **EXERCISE #1** “Light Activation of Chlorophyll”
- **EXERCISE #2** “Leaf Pigments”
 - Chromatography Setup
 - Chromatography Solvent is under the Fume Hood. (in Biology Stockroom)
 - Do not get any water in the chromatography jar.
 - Please don't waste Solvent. You only need 0.5 cm from the bottom (about ¼"). Help us cut down on Hazardous Waste.
 - Fume Hood Directions
 - **sign:**
 1. Make sure the fan is on.
 2. Only use the correct amount of solvent.
 3. Pour used solvent into the waste jar, and return equipment to the lab room.
- **EXERCISE #3** “CO₂ Uptake by Plants”
 - This experiment works best if you make a fresh cut on the end of the *Elodea* stem.
- **EXERCISE #4** “O₂ Production by Plants”
 - Each 1 mm of Bubble Movement is equal to _____ ml of O₂.
 - Blowing CO₂ into the beaker water with a straw should help the plant. (Repeat every 15 minutes.)

EXERCISE #1

**“Light Activation
of Chlorophyll”**

EXERCISE #2

“Leaf Pigments”

Chromatography Setup

**Chromatography
Solvent is under the
Fume Hood.**

(in Biology Stockroom)

**Do not get *any*
water in the
Chromatography Jar.**

**Please don't waste Solvent.
You only need 0.5 cm from
the bottom (about $\frac{1}{4}$ ").**

**Help us cut down on
Hazardous Waste.**

Fume Hood Directions

- 1. Make sure the fan is on.**
- 2. Only use the correct amount of solvent.**
- 3. Pour used solvent into the waste jar, and return equipment to the lab room.**

EXERCISE #3

“CO₂ Uptake by Plants”

**This experiment
works best if you
make a fresh cut
on the end of the
Elodea stem.**

EXERCISE #4

“O₂ Production by Plants”

**Each 1 mm
of Bubble Movement
is equal to _____ ml
of O₂.**

**Blowing CO₂
into the beaker water
with a straw
should help the plant.**

(Repeat every 15 minutes.)

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