

Name:  
Period:

## Rubric – Photosynthesis Lab

Title (IV, DV, and subject) \_\_\_\_\_/3

Background (2-3 Sentences) & Purpose (1-2 Sentences) \_\_\_\_\_/2

Question \_\_\_\_\_/5

Hypothesis (If...and...then) (5pts each) \_\_\_\_\_/5

NOTE: Must have for the “if” part how the IV will affect the DV. If not, subtract 2 points.

Procedure (Clearly states the different treatments for the control and the variable)

- 2 points for not clearly defining control & variable \_\_\_\_\_/10
- 4 points steps are numbered and include details to set up the experiment
- 4 points for including actual amounts of baking soda and water used to make solutions.

Table for part 1 – chromatography (including rf calculations) \_\_\_\_\_/3

Data Table: Title, labels, tables are clearly defined, Units  
(each vacant line is minus one point) \_\_\_\_\_/7

- corrected differences
- ET(50) is calculated

Graph of rate comparison for each (line graph) \_\_\_\_\_/5

Bar graph to compare rate (ET50) \_\_\_\_\_/5

Analysis:

**Paragraph 1: REE** (Results, Evidence, Explanations) \_\_\_\_\_/5

- needs to have stated the purpose and prediction
- needs to have evidence supporting the results.
- needs to have an explanation of the results.

**Paragraph 2: PE** (Possible Errors) \_\_\_\_\_/5

-Must discuss at least 2 sources of error and how to avoid these errors in the future. If not, take off 2 points for each one missing.

- Must clearly state how the error impacted the results (-2 if missing)

**Paragraph 3: PA** (Practical Applications) \_\_\_\_\_/5

- States the “claim” for the lab (This is a strong statement that describes the result and answers the lab question)

- Must explain what the student learned related to photosynthesis while performing the lab.

This should **include key content vocabulary** for this lesson and lab

- Includes connections and importance of this concept (link to ecology?)

**TOTAL: \_\_\_\_\_/60**