



Table 3. \_\_\_\_\_

Temperature of H <sub>2</sub> O (in degrees Celsius)	Total number of floating leaf disks each minute for twenty minutes																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>GROUP – Warm</b> ( _____ deg C)																				
<b>GROUP – Cold</b> ( _____ deg C)																				
<b>CLASS - Warm</b> ( _____ deg C)																				
<b>CLASS - Cold</b> ( _____ deg C)																				

**IV. Data Presentation (10 points). To be completed individually.**

Create a graph in Google sheets and include the data of **ALL THREE VARIABLES ON THE SAME GRAPH** and **staple it to the back of this packet**. Include the following:

1. The type of graph that best shows the data
2. Include a title with both the IV and DV
3. Labels on both X and Y-axis

**V. Photosynthesis Lab Analysis Questions (20 points). To be completed individually.**

1. Rewrite the hypothesis your group created during the pre-lab (2 points). \_\_\_\_\_

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2. Using the terms “reactants” and “products” explain how this lab demonstrates the process of photosynthesis (4 points) \_\_\_\_\_

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3. What were the major findings/surprises of the investigation. Use numerical data with correct units to communicate findings. Be sure to include class data as well (6 points) . \_\_\_\_\_

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4. What conclusions can you draw about limiting factors and their effect on the rate of photosynthesis (4 points). \_\_\_\_\_

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5. Describe at least three errors that could have occurred in this investigation. How could they have been corrected if you were to repeat the lab a second time? Remember, miscounting or mistiming are not acceptable answers (4 points). \_\_\_\_\_

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6. If a Venus fly trap leaf was used in this lab instead of the spinach leaves, would the trend in your observations be different? Why or why not? (2 points) \_\_\_\_\_

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7. Create a model for the assigned variable for this investigation and include the following: (8 points)

- a. **Labels:** stomata, chlorophyll, carbon dioxide, light, water, glucose, oxygen.
- b. **Arrow direction** showing **movement** of gases or molecules.
- c. **Arrow sizes** that represent greater or lesser **amounts of gases or molecules** taken in/produced.
- d. Create a model for the **variable you were assigned** as well as a control model for comparison.