**Photosynthesis “Floating Disk” Multimedia Lab Report / 100 pts.**

1. Background: Share the equation for photosynthesis. Describe how plants get each reactant from the environment. Be specific about plant anatomy and transport. Use graphics. (10)
2. Labeled and completed data table and graph for the baseline (control group). (20)
3. Hypothesis: Do you think your altered variable will increase or decrease the rate of photosynthesis in the plant leaves as compared to your baseline? Explain your reasoning. Please present this with an “if..then” statement. (8)

1. Describe the set-up of your experimental group: Make sure to include materials used, independent and dependent variables as well as constants when comparing to the Control Group. (10)
2. Labeled and completed data tables and graph for experimental group. (20)
3. Analysis Discussion (12)
   1. What is the purpose of creating a vacuum with the syringe?
   2. Where did the leaf disks get the carbon dioxide needed for photosynthesis?
   3. What made the leaf disks float?
   4. What were some sources of error within your group? How would these errors have impacted your results?
   5. Compare experimental data with the control group data. Did the rate of photosynthesis change? Explain this result. What part of the photosynthesis equation did you alter or did you alter an environmental factor?
   6. Revisit and address your hypothesis using the data gathered.

1. Be certain to follow all Multimedia Lab guidelines: (20)
2. The final product must be a well-produced video, photo documentary/paper slide presentation of the lab.
3. Final product must have a beginning with title and clear ending with *credits*. All group member contributions should be listed in the credits portion.
4. Video and still footage are taken during the day of the lab.
5. At least one other lab group is interviewed to compare/contrast findings.
6. Sound and picture quality must be adjusted so all content may be understood.

**All videos must be submitted in a format that Mrs. Handest can view. Share videos/links over email or in Drive: Monday before 9AM**