**What color do YOU see?**

**Question**: How does the environment influence perception?

**Purpose**: To describe and demonstrate how the principles of light interact with biological structures (the eye and the brain) to determine behavior (how quickly and accurately you can sort colored candies.)

A complete lab write-up includes a Title, Purpose, a Data section, a Conclusion, and a Discussion of Results. The data section should contain a copy of the data collected as a class and selection and accuracy percentages calculated. You need to create a graph of the class data including the light conditions on the x-axis and the measure of your choice (ex. Time, accuracy, or completeness) on the y-axis. Your conclusion should be a statement that addresses how environment influences perception of color. Discussion should reference the data and graphs to your claim and connect the experimental results to the scientific principles about vision and light that we have studied.

Selection Accuracy = reds removed/total removed X 100

Completion Accuracy = reds removed/total reds X 100

**Rubric:**

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|  | Included, labeled and organized all parts of the lab report. | \_\_\_\_\_/10 |
|  | Data section includes copy of class data with accuracy & completeness % calculated correctly. Graph of light type and y-variable includes all properties of a good graph. |
|  | Conclusion statement accurately the connection between environmental conditions and how people perceive color. |
|  | Discussion of Results connects the data to the conclusion statement and describes the scientific principles that best explain the results of this experiment. |