Visual Test and Demonstrations Data and Analysis Sheet

Purpose:

Hypothesis:

If

Then

Because:

Data:

**Part A: Visual Tests**

* 1. **Visual acuity test.**

1. **Astigmatism test.**
2. **Accommodation test.**
3. **Color Vision.**

**Part B-Visual Demonstrations**

1. **Blind spot demonstration.**
2. **Photopupillary reflex.**

**Conclusion: (type up)**

Write a conclusion for this lab. What did you learn? Re-visit your hypothesis and any method you use to correct your vision and how they work.

For each test discuss your:

* Expected outcomes
* Your results
* Your interpretation of the results
* What you learned
* What you can conclude about your eye (shape, variation, etc).

1. Visual Test Demonstration:

* **What the assignment is**: Students will test their own vision using a series of tests.
* **What the students will be doing**: Students will demonstrate visual functions by performing the Snellen Eye test, Astigmatism test, Color Vision test and Accommodation test.
* **Purpose of the assignment**: The purpose is to explore their own vision and better understand how variations to the eye result in variation in individuals vision. Students will learn what each element of the eye contributes to vision and how contact lenses and glasses correct vision.
* **What the final product will be**: Students will write post-activity-write-up where they will discuss, in no less than 3 pages, What they learned overall, what they learned about their own vision, what each piece of the eye contributes to vision and weather there hypothesis about their own vision was correct. Students will incorporate a labeled diagram into their response and reference it throughout their writing.
* **How this assignment supports student mastery of the course and unit content**: By testing their own vision students will be able to identify the function of each piece of the eye and identify if there are any defects in their own vision. Through discussion during the activity, students will learn how corrective lenses (contact lenses and glasses) correct vision by correcting for a defect in the eye itself.