Reflection/Refraction online inquiry

**Directions**

**Procedures:**

1. Go to the weblink

https://www.physicsclassroom.com/Physics-Interactives/Refraction-and-Lenses/Refraction/Refraction-Interactive

1. Click on the green button that says “go” in the image
2. Again click on the green “go” button
3. Click on the black button that says, “show protractor” at the top of the page.
4. Grab the protractor found in the lower right corner and drag it to the “normal” line
5. Grab the black laser box and move it around until it crosses the 50˚ mark of the protractor. You may have to hit go more than once to get it perfectly lined up.
6. What line do you measure the angle of incidence or angle of reflection from?
7. On the data table which ever medium is first should be on the top and the second medium should be on the bottom.
8. After you have finished filling in the data table show it to your teacher.
9. Explore using different angles by moving around the laser around and hitting go.
10. Answer the Analyzing the data question on the third page using the data you collected.

**Analyzing the data**

* Use the data you collected to help you answer the following questions.
1. How did the angle of reflection compare to the angle of incidence throughout this lab?
2. Back up your answer with *data* from this inquiry. (Use 2 different *specific* pieces of evidence)
3. Were all the angles of refraction the same as the angles of incidence?
4. Explain why you think they were all the same or not all the same measurements?
5. Why did some of the angles of refraction bend much more than others?
6. What pair of mediums caused the greatest angle of refraction?