

# STUDENT HANDOUT

Student Name: \_\_\_\_\_

**1 Vocabulary**  
**Define the following terms:**

Refraction

*Incident rays*

*Refractive rays*

*Emergence*

*Angles of incidence*

**2** What hypothesis might you form about what is occurring, and whether or not the phenomenon can be measured?

**3 Notes:**  
Describe how a change in matter or density of matter affects light.

Explain why it is hard to locate and pick up an item you see through water.

Due to refraction, the location you see the item is not the actual location of the item.

Check your hypothesis. How close were you to being correct?

**4 Bonus:**  
Use your group and the internet to brainstorm other ways to use this knowledge.

