

# Light labs

1. Law of Reflection
2. Law of Refraction

# Lab: Law of Reflection

May 7

**Objective:** To verify the law of reflection and to determine the distance of a virtual image behind the mirror.

[Complete the procedures on the provided lab sheet.](#)

## **Analysis questions:**

1. What is the law of reflection? How do your measurements of the incident and reflected angles relate to this?
2. What is the definition of a normal line?
3. How did the image appear inside the mirror? Bigger or smaller or same size? Right side up or upside down? (When you look inside a flat mirror, how does your image appear?)
4. Given the choice, real or virtual...do you think the image of the block is real or virtual? Why?
5. How does the distance from the block to the mirror and the distance from the image to the mirror compare?
6. What would be some examples of experimental error (or uncertainties in your measurements) in performing this experiment?

# Lab: Index of Refraction

May 8

- Follow the provided lab procedures and complete on own (or group) paper
- [Click to download the lab procedures](#)