

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

**PRE-LAB #13**  
**OPTICS**

Before starting the laboratory session, be sure read *Investigation #13: Optics* and then answer the following questions:

1. Describe what is meant by *color addition* and list the *additive primary colors* of light.
2. What does it mean to say that two colors of light are *complementary*?
3. At Station #4, you will measure the angle of the reflected rays and the refracted rays with respect to what line? What is the value (in degrees) of this reference line?
4. At Station #5, what does it mean to say that the Polaroid filters are *aligned*? What does it mean to say that the Polaroid filters are *crossed*?
5. (Refer to your textbook or a reputable online source for this question.) Describe how you can tell the difference between a *converging lens* and a *diverging lens*.