

## Product Experiments

### ***OPTICAL BOX***

**Educators can meet a number of Common Core State Standards, Next Generation Science Standards, and other state standard science requirements.**

The Optical Box is a must when instructing pupils on lessons in optics.

Required for the experiments is a small power supply or battery. The experiment works best in a semi-dark room.

In the kit educators will find distinctive color gels. Each gel will change the color of the light.

The kit also includes different shaped glasses which allows light to refract in a number of ways.

In one experiment the instructor may use the contrasting color gels to show the primary and secondary colors of light.

Students will learn the primary colors of light are not the same as the primary colors of nature.

Where the contrasting colors of light meet a new color will appear.

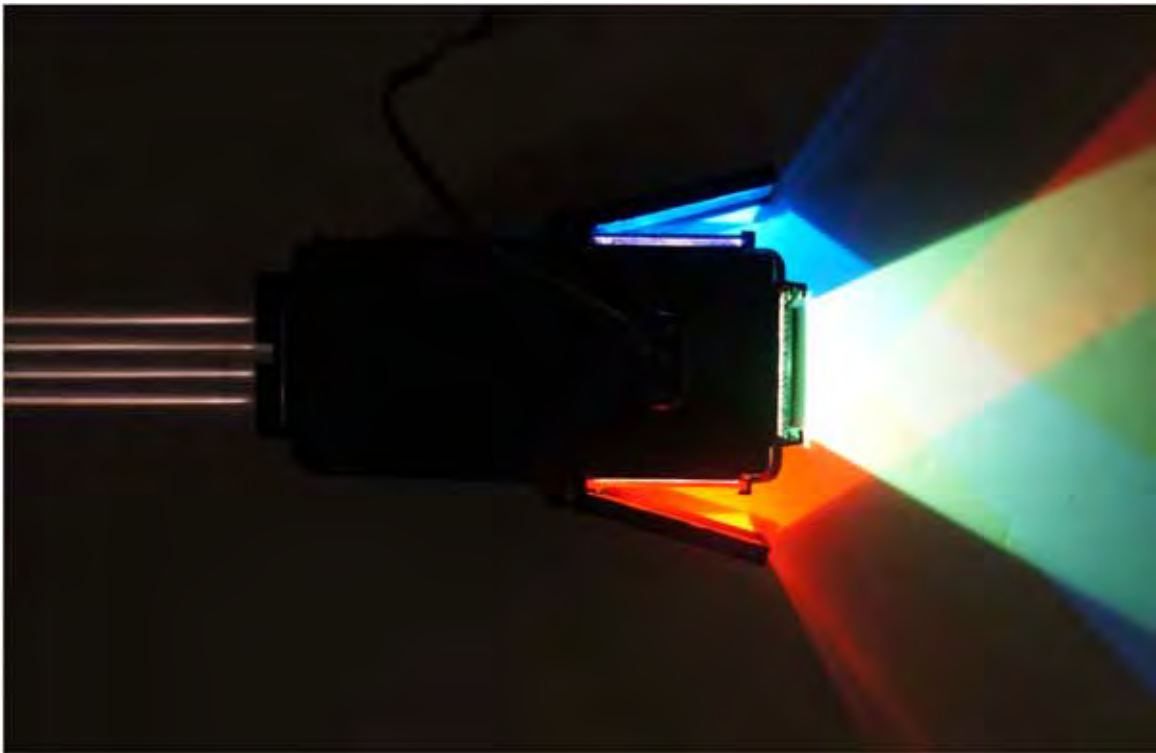
In another lesson teachers use the slotted cards to slide in the correct place on box.

Then they can use the many glasses, one at a time, to show how the light refracts.

This lessons is an extensive way for students to visualize how glasses, we wear, work.

Another exercise introduces focal points, or the distance from the point of light to the edge of the lens.

Determining the focal point is useful in understanding how far glasses should sit from a person's eyes.



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