



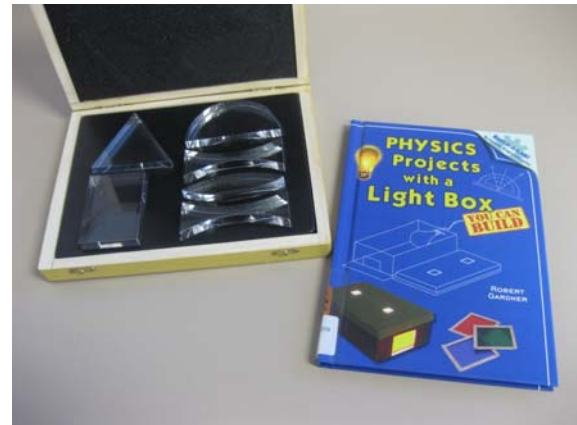
# Activity Kit

## Optics: Prisms and Lenses Kit

### Materials

#### Prisms and Lens Boxed Set

- Rectangular Prism
- Triangular Prism
- 2 Biconcave Lenses
- 1 Biconvex Lens
- 1 Planoconvex Lens



#### Supplemental Materials

- Materials Page
- Instructional Guide in Binder
- *Physics Projects with a Light Box You Can Build* by Robert Gardner

#### Needed but not supplied:

Light Box made from a shoebox

Light Source such as a flashlight

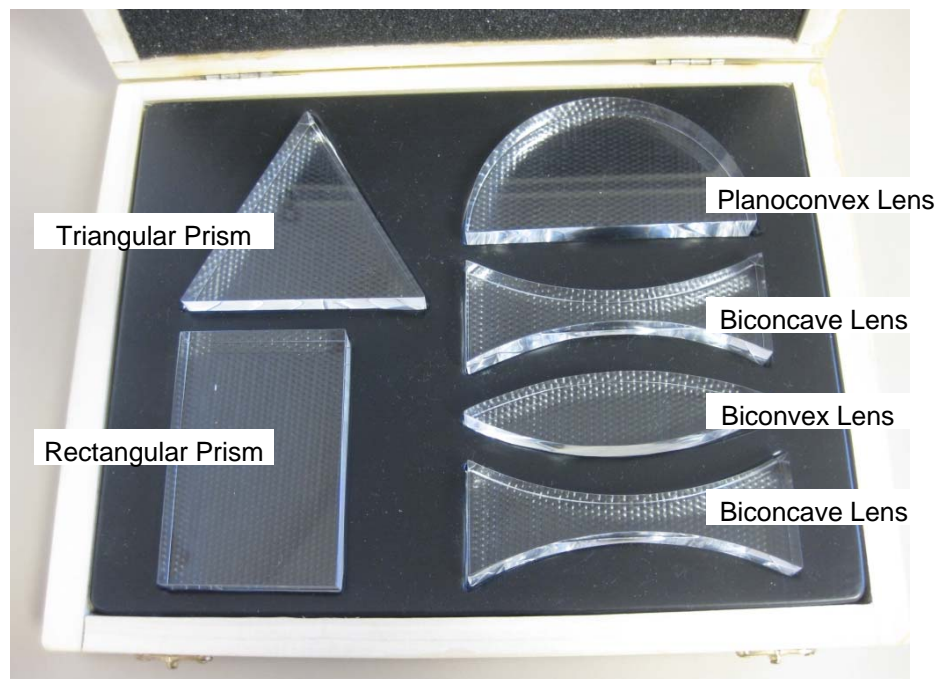
Recommended for ages 8 and above



## What to Know About This Kit....

This kit includes a set of prisms and lenses that can be used to bend light. By finding out how to bend light you can understand the workings of magnifying glasses, telescopes, and even the human eye.

You will need to make a "light box" to make the best use of these materials . The light box gives you a way to make very narrow, straight rays of light so that you can see them bend after passing through a lens or prism. The enclosed book, *Physics Projects with a Light Box You Can Build*, provides detailed directions on how to use a shoe box to build a light box with a strong light source. You can take the basic idea and make a simpler, less powerful light box using a flashlight as the light source. The book shows how to mask the light so that only a couple of rays emerge, which makes it easy to see the effect of passing the light through a prism or lens. You can use a large-toothed comb as a mask as well.



**Recommended for ages 8 and above**

