**Prisms and Mirrors Lab**

**Materials**

* Ray box with slit cover
* Triangular Prism
* Rectangular Prism
* Curved Mirror
* Plane Mirror
* Half Circle Prism
* Convex Lens
* Concave Lens

**Procedure**

1. Collect all necessary materials for the lab.
2. Place the lab observation sheet on the table and fit pieces into their outlined location.
3. Plug the ray box in and put in the slit cover with the appropriate number of slits.
4. Trace the light rays you see on the paper with a pencil. Trace the rays before and after the prism or mirror.
	1. If the rays are hard to see, you may have to lift/tilt the paper or mirror slightly to get a better view.
5. Do this for all situations on the observation sheet.

**Questions**

1. What happened with the light ray going through the triangular prism?
2. What happened with the light ray going through the rectangular prism?
3. Which mirror is a **convergent** mirror? Which mirror is a **divergent** mirror? How can you tell?
4. What happened with the light rays going through the half circle prism? Label the focal point on your observation sheet.
5. Which lens is **convergent**? Which lens is **divergent**? How can you tell?
6. Label the focal point on for the convergent lens on your observation sheet.
7. Describe what happened with the light rays that passed through both a convex and concave lens.