

Curved Mirror Investigation

Purpose:

To show what a ray of light will do when reflected off curved mirrors.

Concave



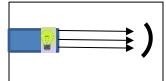
Concave Convex Mirror Mirror

Materials:

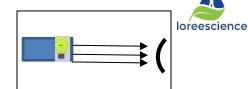
Ray box with a triple slit Curved mirrors Ruler

Part A: Concave mirror

- 1. Place a **concave mirror** on the paper below
- 2. Use the ray box to shine 3 rays of light at the mirror
- 3. **Trace** the bottom edge of the mirror.
- 4. **Trace** the **3 light rays** as the leave the ray box and head towards the mirror.
- 5. Trace the 3 reflected rays going away from the mirror







- 1. Place a **convex mirror** on the paper below
- 2. Use the ray box to shine 3 rays of light at the mirror
- 3. **Trace** the bottom edge of the mirror.
- 4. **Trace** the **3 light rays** as the leave the ray box and head towards the mirror.
- 5. Trace the 3 reflected rays going away from the mirror

Questions:

- 1. Describe what a concave mirror does to the light rays.
- 2. Describe what a convex mirror does to the light rays.