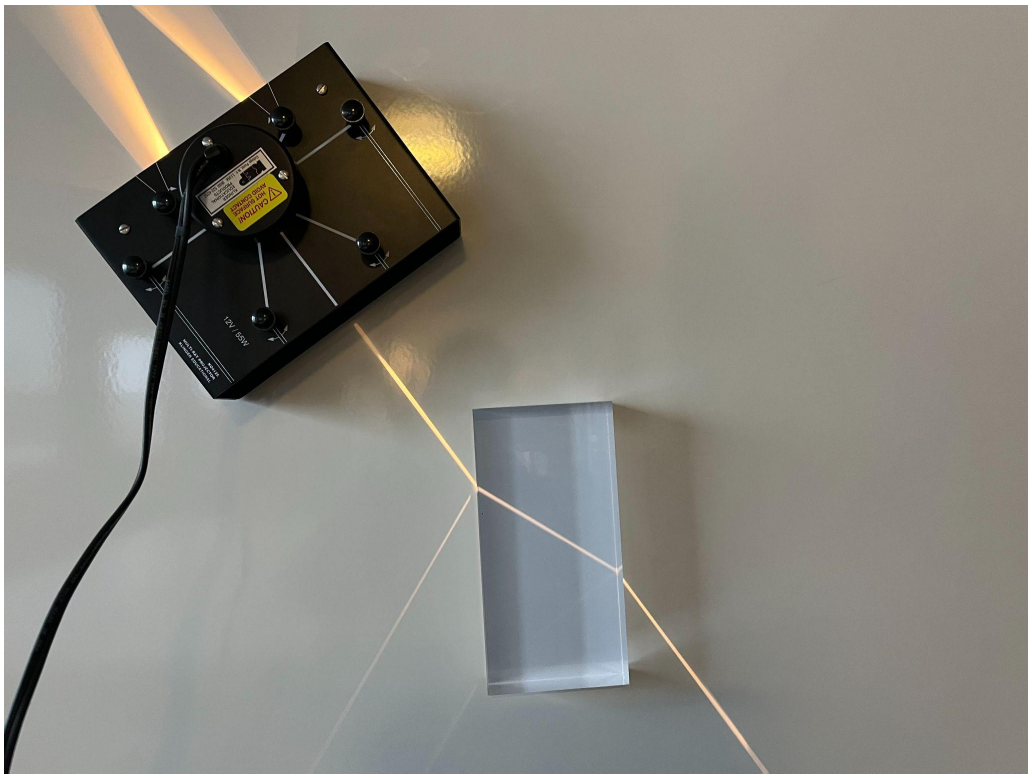
6A42.10 - Blackboard Optics - Refraction Block

Key words: glass rectangle, optics, whiteboard, blackboard, light, medium



Equipment List:

1. Whiteboard
2. Blackboard optics set
3. Glass rectangle from the set

How to assemble and operate:

- Connect the blackboard optics set to power supply to up to 12V DC, make sure it never goes above 12V
- Point a light ray onto the glass rectangle in a way that visibly shows the bending of the light as it travels through the glass

Description/Theory:
This demonstration shows how light travels by different speeds through different media which causes the angle of its trajectory to change.

Comments/Notes:It is very important to never go above 12 VDC in this demonstration, as the lightbulb cannot handle more.