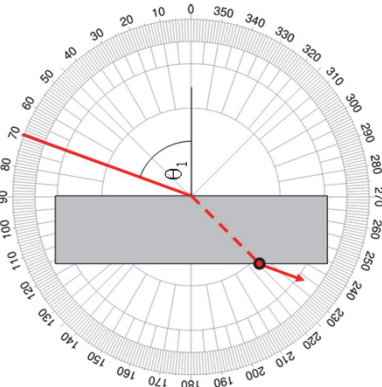
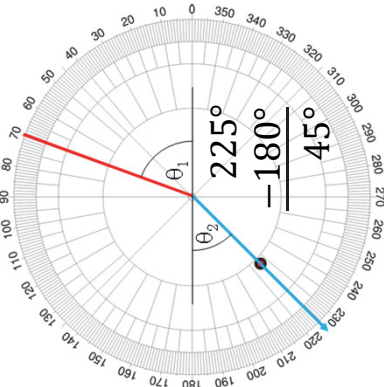


## Instructions

1. Send light in at a fixed angle (e.g.,  $\theta_1 = 70^\circ$ ). Put a dot where the beam comes out.



2. Draw the refracted ray through the dot. Find the exit angle. Subtract  $180^\circ$  to get refracted angle  $\theta_2$ . Here, we find  $\theta_2 = 225^\circ - 180^\circ = 45^\circ$ .



3. Estimate the refractive index using Snell's Law:

$$n_2 = \frac{\sin \theta_1}{\sin \theta_2}$$

4. Repeat for other angles of incidence. Why do large angles give better accuracy?

## Your workspace

