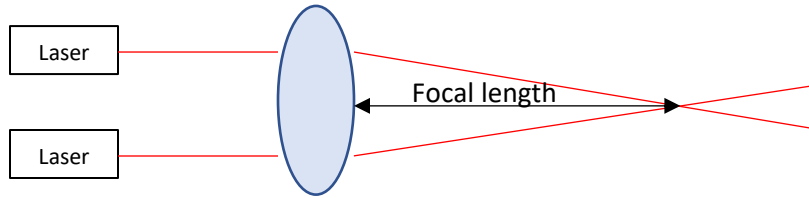
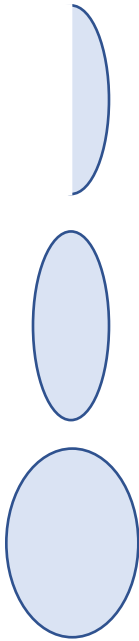


## STATION 1: Focal Length

The **focal length** measures how quickly light is focused to a point by the lenses and is dependent on the curvature of the lens.



Find the focal length for each of the lenses at the front of the classroom.

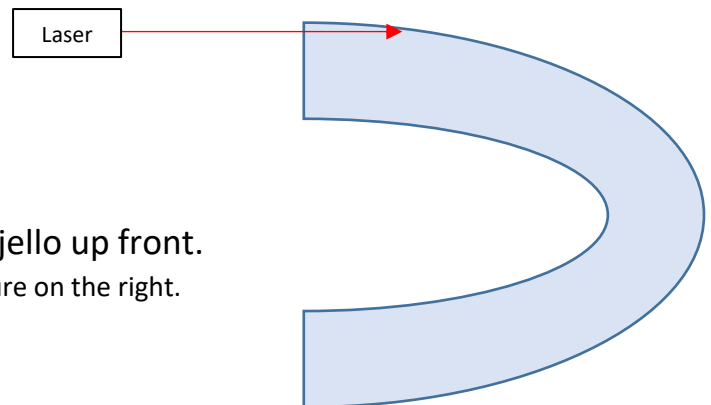


Circle the lens with the shortest focal length.

## STATION 2: Total Internal Reflection (TIR)

Some light is **reflected** at the surface of the jello instead of refracted. In certain conditions, all the light will be reflected instead of refracted, which is called **total internal reflection** (or TIR).

Shine a laser down the long, thin, bent piece of jello up front. Sketch how the light travels through the material in the picture on the right.



Fun fact: This is actually how fiber optic cables work.