**8.4.S - Laser Alarm System**

**Advanced Credit**

**Instructions:**

Prove an advanced understanding of scientific concepts from this unit by responding to the following prompt.

**Advanced Credit Prompt:**

The photographs shown to the right were taken of a two-way mirror. In the first picture, through this two-way mirror, parents are able to watch their children on the first day of preschool without their children knowing or seeing. All the children see is a mirror in their classroom. In the second picture, police detectives can observe a woman while she is being questioned. The woman can not see the detectives, but the detectives can see her. **How do you think a two-way mirror works?** Construct a model in the space provided below that illustrates and explains how a two-way mirror works. Use complete sentences, unit vocabulary, and scientific reasoning for this phenomena . 

