
4.2 REFLECTION

Name _____ Date _____ Period _____

Your challenge:

Using a remote control, turn on a TV when you are not in a direct line with it.

Rules:

1. You have only ONE SHOT to successfully turn on the TV – no practice shots!
2. You must use all the mirrors provided to your group.

Questions:

1. Before trying to use the remote, draw a diagram showing where the TV and remote control are, where you need to place the mirrors so the remote control can turn on the TV, and where any barriers (such as walls, lab benches, or doors) are located.

2. With the mirrors arranged as in the drawing above, press the On button on the remote. Were you able to turn on the TV the first time? If not, why do you think you did not turn on the TV?

3. How did you know when you had the mirrors set up the right way before you tried it?

4. What does this experiment tell you about the similarities between visible and infrared light?