

Mirror, Mirror on the Wall

Student worksheet

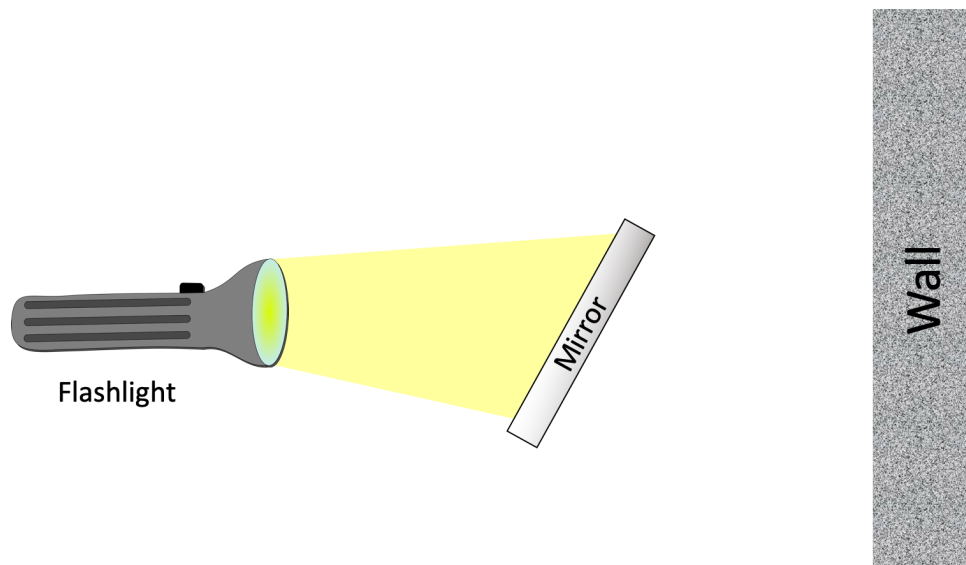
Name: _____

Date: _____

1. Investigation

Follow these steps to do your investigation:

- Student 1: Switch on the flashlight and point it toward the wall.
- Student 2: Hold the mirror in between the flashlight and the wall. The light should hit the mirror, as shown in the image below.



- Student 2: Move the mirror to change the direction of the light (student 1 should not move the flashlight).
- Try to hit following targets with the light. Be careful not to target other people's eyes! Check the box when you have managed to hit the target.

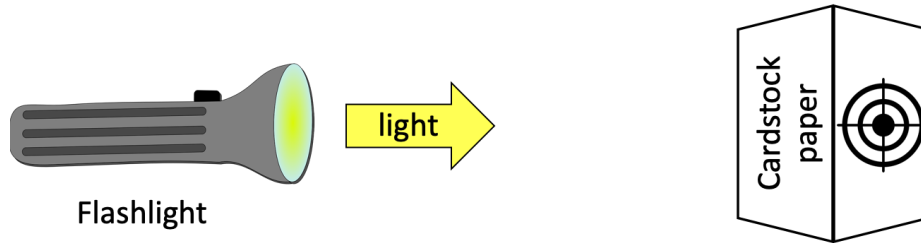
Student 1: _____	Student 2: _____
☐ The floor ☐ The ceiling ☐ The door ☐ A window	☐ The floor ☐ The ceiling ☐ The door ☐ A window

- Switch roles and repeat steps a.-d.

2. Mirror Challenge

Setup:

- Place the folded cardstock target on the table. Shine the flashlight on the blank side of the cardstock, as shown in the image below.



Goal:

- Make the light hit the target sign on the other side of the cardstock. Do not touch the flashlight, but use the three mirrors to change the direction of the light. The mirrors can be placed anywhere around the cardstock.

Results:

- In the diagram below, draw how you positioned the mirrors to redirect the light to the target. Draw how the light bounces off each mirror and where the light goes.

