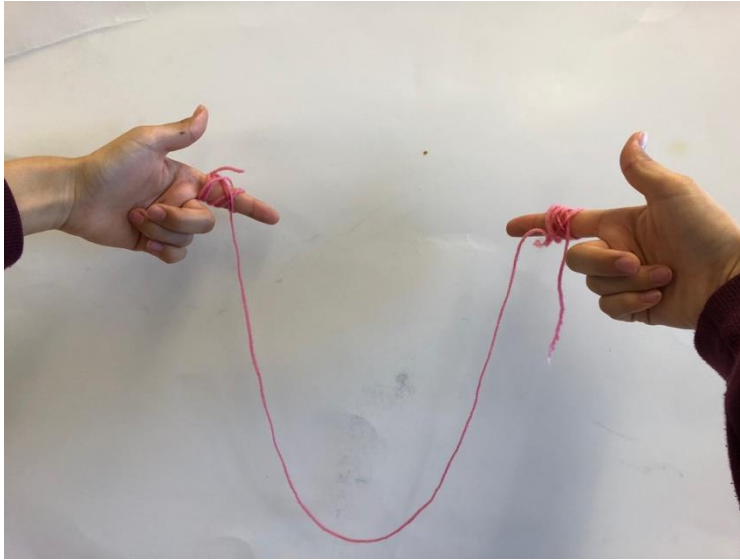


# Hanger/Spoon Station

Materials: spoon/hanger with three different kinds of line attached (e.g., string, fishing line, metal line)

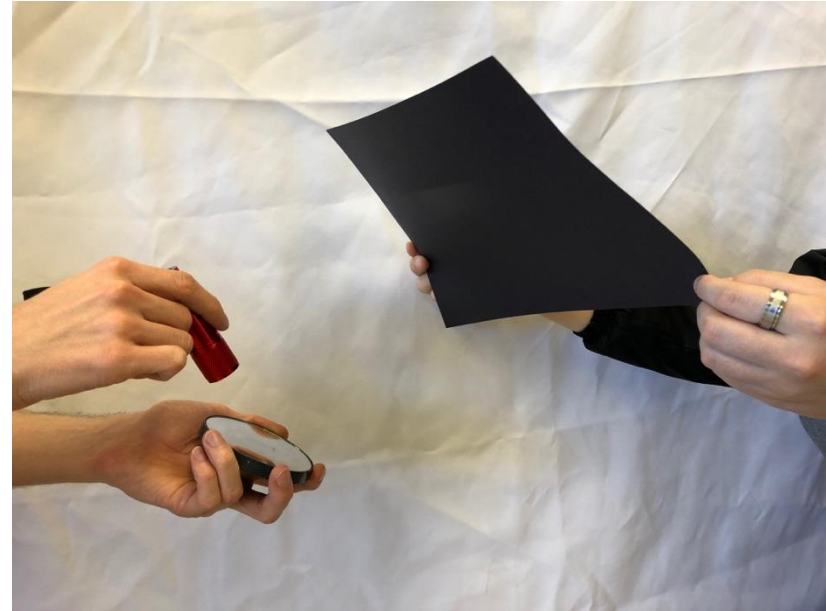
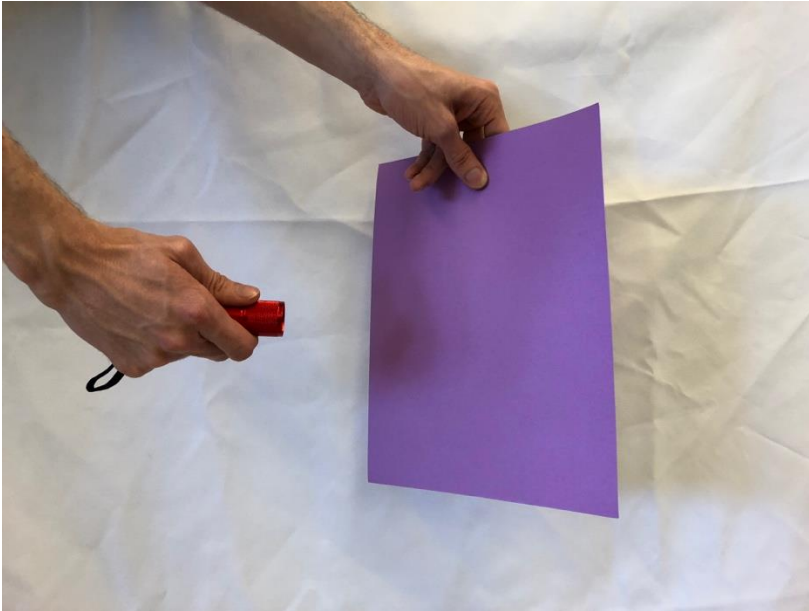


1. Wrap each end of the string around a finger on each hand about the same amount. Swing the hanger so that it strikes a desk or table. Observe and describe the sound as you hear it through the air.
2. Hold the tips of your fingers in your ears-swing the hanger and strike it against a desk or table.
3. Repeat with each type of line. Write your observations on the worksheet.

Note: Each person in the group must do this since you can't hear without doing it yourself.

# Light Station

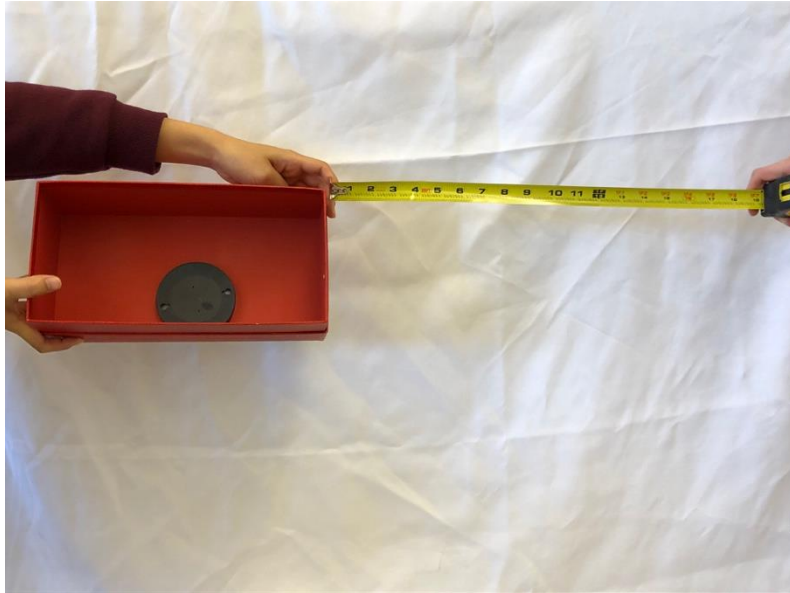
Materials: source of light like a flashlight or LED laser pointer, mirror, saran wrap, piece of wood, wax paper, colored construction paper, black construction paper



1. Lay the flashlight on a desk or table shining towards the wall. Hold up each of the materials in front of the flashlight. How does the light interact with each material? Write your observations on the worksheet.
2. Lay the mirror flat on the desk and shine the light at it. Use a piece of construction paper to find the reflected light. Experiment with holding the mirror at different angles, shining the light on it and “catching” the reflected light. What do you notice? Write your observations on your worksheet.

# Sound in a Box Station

Materials: box, sound source (e.g., alarm, timer), cotton fabric, shredded paper, measuring tape



1. Turn the sound source on and place it inside the box. Walk away from the box until you don't hear it anymore. Use the tape measure to measure the distance and record on your worksheet.
2. Now pack one of the materials around the sound source in the box. Walk away from the box until you don't hear it anymore. Use the tape measure to measure the distance and record on your worksheet.
3. Repeat this with each of the different materials and record the distance each time. Record your observations on your worksheet.