



Seeing Sound

Procedure

1. **Collaborate** Work with a partner. Turn an empty coffee can upside down. Have a partner tap the bottom of the can with the spoon. On the lines below, record what happens. **Safety:** Wear goggles.

2. **Observe** Place a few grains of sand on the bottom of the can. As your partner taps the can with the spoon, use a hand lens to observe the grains of sand. Record your observations.

3. **Record Data** Hold a metal washer by the edge. Use the spoon to tap the washer. Record your observations.

4. **Observe** Now tie one end of a string to the washer. Have your partner hold the other end of the string so that the washer hangs. Tap the washer with the spoon. Record your observations.

Conclusion

1. **Observe** What happened to the sand grains in step 2?
What do you think caused this?

2. **Infer** How did the noise the washer made differ in steps 3 and 4?

3. **Hypothesize** What might explain the difference in sounds?

Experiment

Guided Inquiry

Gather objects from around your home. Find out what sounds you can make using these objects. See if you can change the objects in some way to make different sounds. Describe the sounds you hear.