



Math Science Partnership

3. Air Column in a Cylinder & Sound Frequency (2008)

Name:

Date:

Objectives To investigate the relationship between the length of an air column and frequency.

Materials: Cylinders and water.

Procedure

1. Start by filling a cylinder half full.
2. Strike the side of the Cylinder & listen to the Sound.
3. Now, pour out half of the remaining water & strike the cylinder again.
4. Listen to the new sound... how is it different than the previous sound?
5. Predict what will happen if we pour more water out.
6. Pour out & test the guess.
7. Explain how waves generate, travel and are received.
8. Describe how energy is transmitted through waves.
9. Discuss what factors determine the frequency of a wave.