



Energy & Waves: Teacher Tips & Helpful Hints

N.C.S.S: 6.P.1 Understand the properties of waves and the wavelike property of energy in earthquakes, light, and sound.

- The activity is broken up into two different parts:
 - **Part 1: Energy and Waves** (6.P.1.3)
 - **Part 2: Ear Puzzle** (6.P.1.3)

Part 1: Energy and Waves

- Demonstrate how to stretch the balloon over the cups.
- Each student receives extra balloons.
- For parts 1 and 2, when students pull back on the balloon the cup may bend in slightly. As soon as they release it, the cup will return to its original shape.
- For part 3 students should be in an area where it is ok to have water.
- There is an *Energy and Waves: Student Activity Sheet* available.

Part 2: Ear Puzzle Activity

- The following resources are available:
 - Ear Component Functions
 - Completed Ear Puzzle
 - Ear Problems
- **Ear Component Functions** is needed for part 2.
- **Ear Problems** is needed for part 3.
- There is an *Ear Puzzle: Student Activity Sheet* available.

N.C.S.S Clarifying Objectives

- 6.P.1.3 Explain the relationship among the rate of vibration, the medium through which vibrations travel, sound, and hearing.