



NATURAL SCIENCE CENTER  
OF GREENSBORO

Community Service Through Science

# Sound Science

Program Length: Approximately 45 minutes

## Science Presentations

The Science Presentation you have scheduled is designed to help illustrate the science concepts taught in the classroom and to stimulate student interest in the subject matter.

## Program Outline

- 1) How sound is produced (vibrations)
- 2) How sound travels (wave, speed of sound)
- 3) Features of sound (pitch, volume)
- 4) Communicating with sound (identifying sounds)

## Program Objective

To help students understand the physical characteristics of sound and demonstrate the importance of sound as a means of communicating information. The group will be engaged in a number of challenges including testing to determine the highest pitch their ears can detect, identifying sound effects, and judging the distance of a thunderstorm by applying the speed of sound.

## Vocabulary

wave  
sound  
speaker  
vibration

pump  
vacuum  
volume

pitch  
thunder  
lightning

tuning fork  
musical note  
vibration per second (vps)