

# Sound Like Science



*Make waves and make some noise in this fun and funky show that explores the science behind sound! We will create a crazy cacophony with a garbage can, a swinging sound tube and a metal pipe! Children will cheer as pickles glow and potatoes pop! There is even a kid-created thunderstorm!*

## **SUMMARY:**

This Mad Science show is all about sound and sound waves. The students will get tuned-in to learning with exciting demonstrations and experiments. Volunteers will help demonstrate wave motion. Children will learn the difference between transverse and longitudinal waves and understand how vibrations travel to their ears. Ordinary objects will be used to simplify complex ideas – kids will make bagpipes out of trash bags and use cups and buckets to create sound amplifiers. Metal pipes and rods will sing...and shriek. A group of children will build an electronic speaker to play music out of a trash can. The final demonstration will create a shock wave – a sound so strong that it can be “heard” with their skin.

## **EDUCATIONAL VALUE:**

Volunteers capture the characteristics of sound concepts and sound waves by role-playing molecules to demonstrate sound wave motion. Children participate in producing and identifying acoustic sounds from a variety of materials. Electronic distortions link shifting frequencies to voice alterations.

## **TAKE-HOME MESSAGE:**

- 1 Sound moves in waves.
- 2 Vibrations cause sounds.
- 3 Vibrations create different sounds.

