

Super Sounds

Students will understand the relationship between sound and vibrating objects.

SUMMARY:

Students will explore the relationship between sound and objects of the body that vibrate – eardrum and vocal cords! They will learn how sound travels, and then experiment in sound stations and transform their voices with our Mad Science voice modulator!

EDUCATIONAL VALUE:

This workshop is an introduction to the basics of sound. Students will explore how sound travels through the air, how different sounds can be produced and how our ears help us hear sound. Volunteers role play molecules to demonstrate sound wave motion. Children participate in producing and identifying acoustic sounds generated from a variety of materials. Hands-on activities and demonstrations will allow students to discover how they can make different sounds and how vibrations produce sound. Inquiry-based teaching methods will be used to present the topic in an engaging, age appropriate manner.



TAKE-HOME MESSAGE:

- 1 Sound moves in waves.
- 2 Vibrations cause sounds.
- 3 Different vibrations create different sounds.
- 4 Parts of the body vibrate in order to produce and receive sound.

TAKE-HOME PRODUCT:

Mad Science® Pan Flute

North Carolina Essential Standards:

- Understand the relationship between sound and vibrating objects.
- 2. P.1.1 Illustrate how sound is produced by vibrating objects and columns of air.
- 2. P.1.2 Summarize the relationship between sound and objects of the body that vibrate – eardrum and vocal cords