



SOUNDS LIKE SCIENCE



Dear Educator:

Thank you for choosing to bring your students to the Science Gallery. When you arrive, check in at the box office on the Planetarium level. For payment, you will be required to know the exact number of students and adults in your group.

Store outerwear, lunches, backpacks, etc, in the cloakroom in the lower level. No backpacks in the gallery. The Manitoba Museum is not responsible for loss or theft; valuables should be left at home or school.

For further information, please visit our website www.manitobamuseum.ca or call 988-0626.

Visiting the Science Gallery

After your program, you will be exploring the Science Gallery. Our exhibits are best enjoyed with the assistance of an adult – teachers are asked to divide the class into smaller groups assigned to adult supervisors.

Please note, washrooms and water fountain are located near the *Numbers Game* exhibit. There is no need to leave the gallery during your visit.

Science Gallery Rules

1. No running, please.
2. Out of respect for other classes and visitors, please use indoor voices.
3. Food and drink are not allowed in the gallery. No gum, please.
4. Before entering the Matrix –the room of mirrors– everyone must remove their shoes and put on the slippers provided. Please put your shoes back on your feet when you leave the Matrix.
5. Please read or listen to instructions before trying out the exhibits.

Class control remains the teacher's responsibility.

Please turn off cell phones or set the ring to silent during programs.

Grade: 4
Cluster: Sound
Duration: 30 minutes

Program Outline:

Sounds Like Science is an exploration of sound and vibration through a series of interactive experiments. Learn about how sound waves travel, whether sound exists in a vacuum and how pitch changes!

Vocabulary

Here is a list of words we use during this program:

Sound, energy, sound wave, vibration, high pitch, low pitch, frequency, vacuum, air, ear, vocal cords, absorb.

Pre-visit Suggestions:

1. Provide examples of high and low pitch sounds to help your students distinguish between the two.
2. Discuss the origins of sound – vibrations– and how we hear sounds.

Follow-up Activities

Sound Shakedown

Round up some opaque containers and fill them half way with a variety of materials: dried beans, rice, marbles, and sand. Seal the containers and allow the students to shake them. What does the sound tell you about the object inside? Does sand hitting the sides of the container have the same pitch as the beans, etc?

Make an Instrument

Make your own musical instrument using recycled materials. Try a drum from an old coffee tin, or a guitar made of a cereal box and a paper towel tube. How can you change the pitch of your instrument? Put on a concert for the class!

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