

# Sound Challenge

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*Grade 1*

## **Program Description:**

Using “kitchen gongs”, students explore the sounds they can make by vibrating different materials. They work in groups and choose from a variety of materials to design and build a device that will carry sound signals to each other. They test and compare their devices to determine how they might be improved.

## **Massachusetts Curriculum Standards:**

### **Grade 1: Physical Science**

#### **PS4. Waves and their Applications in Technologies for Information Transfer**

- 1-PS4-1. Demonstrate that vibrating materials can make sound and that sound can make materials vibrate.
- 1-PS4-4. Use tools and materials to design and build a device that uses light or sound to send a signal over a distance.

### **Grade 1: Technology/Engineering**

#### **ETS1. Engineering Design**

- 1.K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change that can be solved by developing or improving an object or tool.
- 1.K-2-ETS1-2. Generate multiple solutions to a design problem and make a drawing (plan) to represent one or more of the solutions.



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845 West Street, Amherst, MA 01002 | [hitchcockcenter.org](http://hitchcockcenter.org) | 413-256-6006