

First Grade 2020 Science Unit #2: Sound

Content Area: **Science**
Course(s): **Science 1, Generic Course**
Time Period: **Marking Period 1**
Length: **Approximately 6-8 weeks**
Status: **Published**

Established Goals/Standards

CAEP.9.2.4.A.1	Identify reasons why people work, different types of work, and how work can help a person achieve personal and professional goals.
CAEP.9.2.4.A.3	Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.
1-PS4-1.PS4.A	Wave Properties
1-PS4-1.PS4.A.1	Sound can make matter vibrate, and vibrating matter can make sound.
1-PS4-4.PS4.C	Information Technologies and Instrumentation
1-PS4-4.PS4.C.1	People also use a variety of devices to communicate (send and receive information) over long distances.
K-2-ETS1-1.ETS1.A	Defining and Delimiting Engineering Problems

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- How can sound make objects move?
- How can we communicate with sound?
- What is sound?
- What is volume and pitch?

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- People can use a variety of devices to communicate (send and receive information) over long distances. People communicate by talking using spoken words, with music (communicating feelings and ideas), shouting, whistling, using a phone, etc.
- Sound is a kind of energy that you hear when something vibrates.
- Vibrations from the sound make objects move (like in a balloon held close to a speaker playing music). This is sound waves.
- Volume is how loud or soft a sound is and pitch is how high or low a sound is.

Content

Student will be able to:

- Plan and conduct investigations to provide evidence that vibrating materials can make sound, and that sound can make materials vibrate
- Use tools and materials to design and build a device that uses sound to solve the problem of communicating over a distance

Assessment

End of Unit Assessment given by printed version or online version using the following:

teacher Assessment book

HMHCO.com online assessments

Also, assessments given throughout each unit using self checks, unit reviews at end of each unit in student workbooks, during labs.

Resources

HMC Science Dimensions Teacher's Guide

HMC Non-Fiction leveled readers

Science kits materials for Units 1-6

HMC Science Dimensions Student workbooks

HMC online component for students and teachers (ED) (HMHCO.com) which includes online version of units, videos, assessments, downloadable worksheets, projects, and hands-on activities.

Teacher Assessment Book (also on HMHCO.com)

Evidence Notebooks

You Tube

Mystery Science

Science Spin

Non-Fiction Books from school library

Scholastic News First Grade Level

Mailbox Magazine activities

Teacher's Helper activities

weekly STEM activities

-

-