



## Sound is Vibration Lessons

### Websites

#### [Hunkin's Experiments – Sound Experiments](http://www.hunkinsexperiments.com/themes/themes_sound.htm)

Lists experiments for resonance, more resonance, music, noise, and paper noise. Kid-friendly interface with direction in a cartoon format. Reading level most likely too high for 2nd grade, but a fun site. Other non-sound science experiments available here.  
( [http://www.hunkinsexperiments.com/themes/themes\\_sound.htm](http://www.hunkinsexperiments.com/themes/themes_sound.htm) )

#### [Science of Sound: Hands on Activities](http://www.smm.org/sound/activity/handson.htm)

This Science Museum of Minnesota site has a list of hands on activities and brief explanations of the related sound principles. Not all activities may be appropriate for 2nd grade children.  
( <http://www.smm.org/sound/activity/handson.htm> )

#### [The Saturday Scientist – Sound Experiments](http://www.west.net/~science/sound.htm)

A list of experiments for anyone to try that illustrate the principles behind the science of sound. The site has some background information, recommended primarily for teachers or interested adults.  
( <http://www.west.net/~science/sound.htm> )

#### [The Science of Sound – Hands on Technology](http://www.galaxy.net/~k12/sound/#exper)

This is a series of experiments about sound and its application to animals, musical instruments and communications. This unit was designed for use in the second grade. Good site for teachers that just need more sound experiments for this age group.  
( <http://www.galaxy.net/~k12/sound/#exper> )

#### [The Unmuseum – Experiment with Sound](http://unmuseum.mus.pa.us/exsound.htm)

A single experiment that demonstrates sound as vibration. Easy to read, but probably more for older kids and adults.  
( <http://unmuseum.mus.pa.us/exsound.htm> )



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### Books

#### **A Fiddle for Angus**

By Budge Wilson; illustrated by Susan Tooke. (2006, Tundra Books)

A beautifully illustrated story about Angus, a young boy who uses the music of the sea, rocks, and wind as the inspiration to choose and master an instrument so he can join his family's orchestra.

#### **Hearing Sounds (Science for Fun)**

By Gary Gibson; illustrated by Tony Kenyon. (1997, Franklin Watts)

Innovative ideas for experiments with sound are carefully explained with minimal text in this step-by-step guide that facilitates a child's understanding of vibrations, bouncing sounds, and pitch. Suggested reading level: ages 4 to 8.

#### **Hear That?**

By Tama Janowitz; illustrated by Tracy Dockray. (2001, SeaStar)

A mother and son pay close attention to the sounds all around them and theorize in increasingly exaggerated and nonsensical ways about what produced them. A good picture book for reading aloud or independently.

#### **The Listening Walk**

By Paul Showers; illustrated by Alike. (1993, HarperCollins)

A father and child take a walk together and listen to the sounds around them. A good picture book for reading aloud or independently.

#### **Sounds All Around (Let's-Read-and-Find-Out Science)**

By Wendy Pfeffer; illustrated by Holly Keller. (1998, HarperCollins)

Focuses on how sounds are made and used for communication. Text is child-friendly and accessible for many independent readers. Also a good read-aloud.



### **Sounds and Music (Secrets of Science)**

By Robin Kerrod; illustrated by Mike Atkinson. (1991, Marshall Cavendish)

Contains projects, experiments, and activities aimed at exploring music and other sounds. Text is child-friendly, but probably too difficult for many second graders to read independently. A good reference book for the unit.

### **Vroomaloom, Zoom**

By John Coy; illustrated by Joe Cepeda. (2010, Nodin Press)

A child and her father take a drive when the little girl can't fall asleep. The noises they hear along the way are highlighted and represented with inventive use of language and lots of onomatopoeias! A good picture book for reading aloud or independently.

## **CDs and DVDs**

### **Fantasia**

Disney Studios, 2010.

Classical music reinterpreted by Disney animators, resulting in surreal fantasy and playful escapism.