



*Broward County Public Schools Videoconference*

**Reading Rascals**

**Lesson:** Sound and Vibrations  
**Instructor:** Dr. Evelyn Nelson-Weaver  
BECON Distance Learning Teacher

**Grade Level:** First Grade

**Sunshine State Standard:** LA.A.1, LA.A.2, SC.D.1 and SC.H.1

**Benchmark:** LA.A.1.1.2, LA.A.2.1.1, SC.C.1.2.2, and SC.H.1.5

**Objective(s):**

1. Students will define vocabulary words through context clues in the reading selection.
2. Students will determine the main idea or essential message from the text.
3. Students will understand that sound is caused by vibrations.
4. Students will use their senses to discover how instruments produce sound.

**SCIENCE SKILL EMPHASIS:** Gather Information.

**MEDIA CONNECTION:** Vibrations from *Wonder of Sound, The..* 100% Educational Videos (1998). Retrieved February 27, 2008, from unitedstreaming:

<http://streaming.discoveryeducation.com/>

- Questions for students:
  - **When something moves it causes vibrations. So....**What is caused when you hit a drum or cymbal with a drumstick? *A vibration*
  - Can vibrations hurt your ears? *Yes*

**LITERATURE CONNECTION:**

**Book Title:** Sounds All Around

**Author:** Wendy Pfeffer      **Illustrator:** Holly Keller

**Publisher:** Harper Collins, New York, NY (1999)

**Summary:** This book explains how sounds are made and the purpose they serve for both humans and animals.

**ACTIVITIES:**

Videoconference instructor will read Sounds All Around.

1. What shakes in your throat to make sound? *Vocal cords*
2. Beating a drum makes it vibrate. Through what do vibrations travel from the drum to your ear? *The air*
3. How do we use our hands to send messages? *Clapping, knocking on a door*
4. How does a bat find its way around in the dark? *Makes sounds*
5. Can sound waves travel through solid ground? *YES*
6. Can sound waves travel through water? *YES*
7. Can you measure sound? *YES*

Students will determine how sound is produced on various instruments by identifying what vibrates when each instrument is played.

1. drum – drum head
2. triangle – metal

3. thumb piano – metal
4. guitar – strings
5. clarinet – reed
6. French horn – players lips

**MEDIA CONNECTION:** How Do Sound Waves Travel Through Different Materials? from *Sound: A First Look*. Rainbow Educational Media (2001). Retrieved February 27, 2008, from unitedstreaming: <http://streaming.discoveryeducation.com/>

**ACTIVITY:** Videoconference Instructor will conduct an experiment to show that sound travels faster as it travels through water. Hold a ticking watch next to a microphone; then listen to the ticking sound through a baggie full of water.

**MATERIALS NEEDED:** None

**EXTENSION:**

**Related Website:** The Musical Brain  
<http://faculty.washington.edu/chudler/music.html>