

Name _____

Science of Sound

In my opinion,...	Example
A Beautiful sound is	
A noisy sound is	
A Funny sound is	
A Cool animal call is	
A neat sounding instrument is	



What is sound and can we see it? (Circle words that describe sound and cross out any that don't)



Vibrations

ENERGY

LIGHT

WAVES

Wave drawings:

LOUD sound wave →

Soft sound wave →

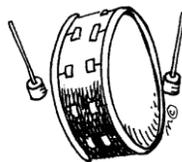
High pitch sound wave →

Low pitch sound wave →

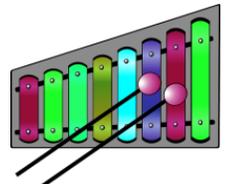
Experiment – Which instrument played the highest note?



Tin flute



Golf Tube



Slide whistle (in)



Slide whistle (out)



Explore Together

Today at Snapshot Science Club we studied the science of sound. Our warm-up activity was to think about different sounds and share them with a partner. Next, we learned about what sound is by trying to visualize the energy, waves, and vibrations sounds make. Ask your young scientist to explain how we saw sound with a glass of water and salt on a bowl.

Scientists can use an oscilloscope to measure how sounds are different from each other. We compared loud and soft sound waves to each other and drew them. Then we compared high and low pitched sound waves to each other and drew them.

Our experiment compared the pitch of sounds from several different instruments. We listened to each sound while watching the waves on the oscilloscope to decide whether each instrument sounded higher or lower than the others. You can create your own version of the experiment at home if you download the oscilloscope. The oscilloscope we used is a free online app at: <https://academo.org/demos/virtual-oscilloscope/> OR AX-7 app for iPhone or iPad available on the App Store.

Next meeting: Magnetism!

Prize drawing each meeting...To encourage your child to share their experiences with you each meeting at Snapshot Club, there will be a prize drawing. Participants simply need to bring back this sheet to the next Snapshot Science Club meeting with your signature which indicates you have read the note and have discussed what they did with you. Their name will be put into a hat for a small prize related to science. There will be one winner each meeting.

Parent Signature _____