





- Sound- дуу
- Vocal cords- дууны хөвч
- Vibrations чичирхийлэл, хэлбэлзэл
- Loudness дууны хүч (чанга, сул)
- Pitch дууны өнгө

What causes sound?



It's easy to make a sound. Hit a box with a stick. Blow into a tube. Pluck a rubber band.

We can make sounds with our vocal cords. Try placing your thumb and fingers gently on your throat while you are talking or singing. You should be able to feel vibrations.



What causes sound?



All sounds come from sources which vibrate (move back and forth). You may be able to see the vibrations of a guitar string. You can't see the air inside a saxophone vibrating.





Loudness and pitch



There are three types of musical instruments:

Stringed instruments (with string that vibrate)



Wind instruments (ones that you blow into)



Percussion instruments (that you strike)



Loudness and pitch



Musicians learn to make different sounds with their instruments. There are two things they can change:

 They can make the sound of their instrument louder or softer. They can control its loudness

 They can make the note higher or lower. They can change its pitch

Loudspeakers

Loudspeakers are used to produce sounds from computers, radios and television sets.

Inside a loudspeaker is a paper cone. This cone vibrates back and forth to make sounds that we

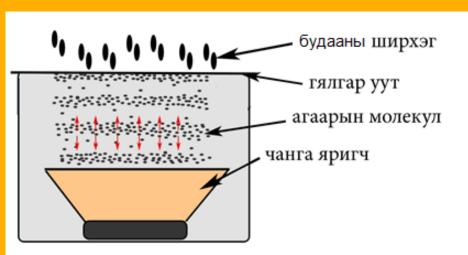




Loudspeakers

http://youtube.com/watch?v=01QJXvH_iQY

Савыг огт хөдөлгөөгүй байхад будааны жижиг хэсгүүд яагаад хөдөлж байгаа вэ?





Summary

- Sounds are produced by vibrating objects
- Bigger vibrations give louder sounds
- Faster (more frequent) vibrations give sounds of higher pitch