Guiding Question: What changes in a wave when you change the volume and pitch of a sound?

Learning Goal: Tell the difference between a low pitch and high pitch sounds and low and high volume sound

Agenda
1) DSR-Frequency and Period
2) Sounds Notes
3) Sound activities
4) Exit Ticket

Word of the day
Sound
Medium

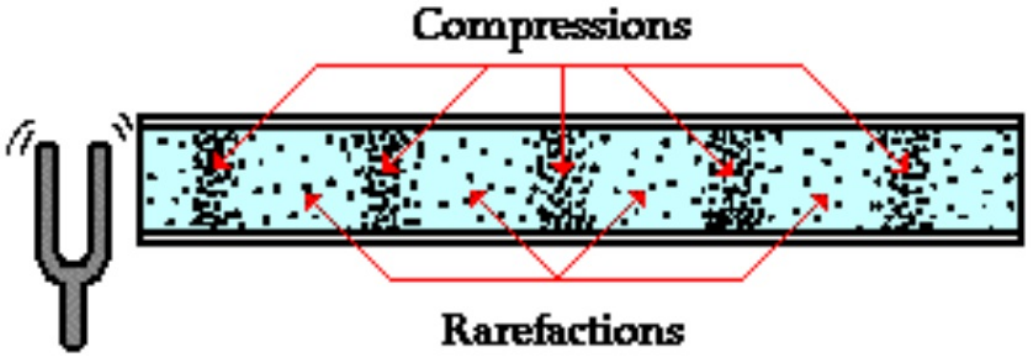
Sound C-Notes

Guiding Question: What changes in a wave when you change the volume and pitch of a sound?

My Explorations of Sound

Sound

Vibrating Matter

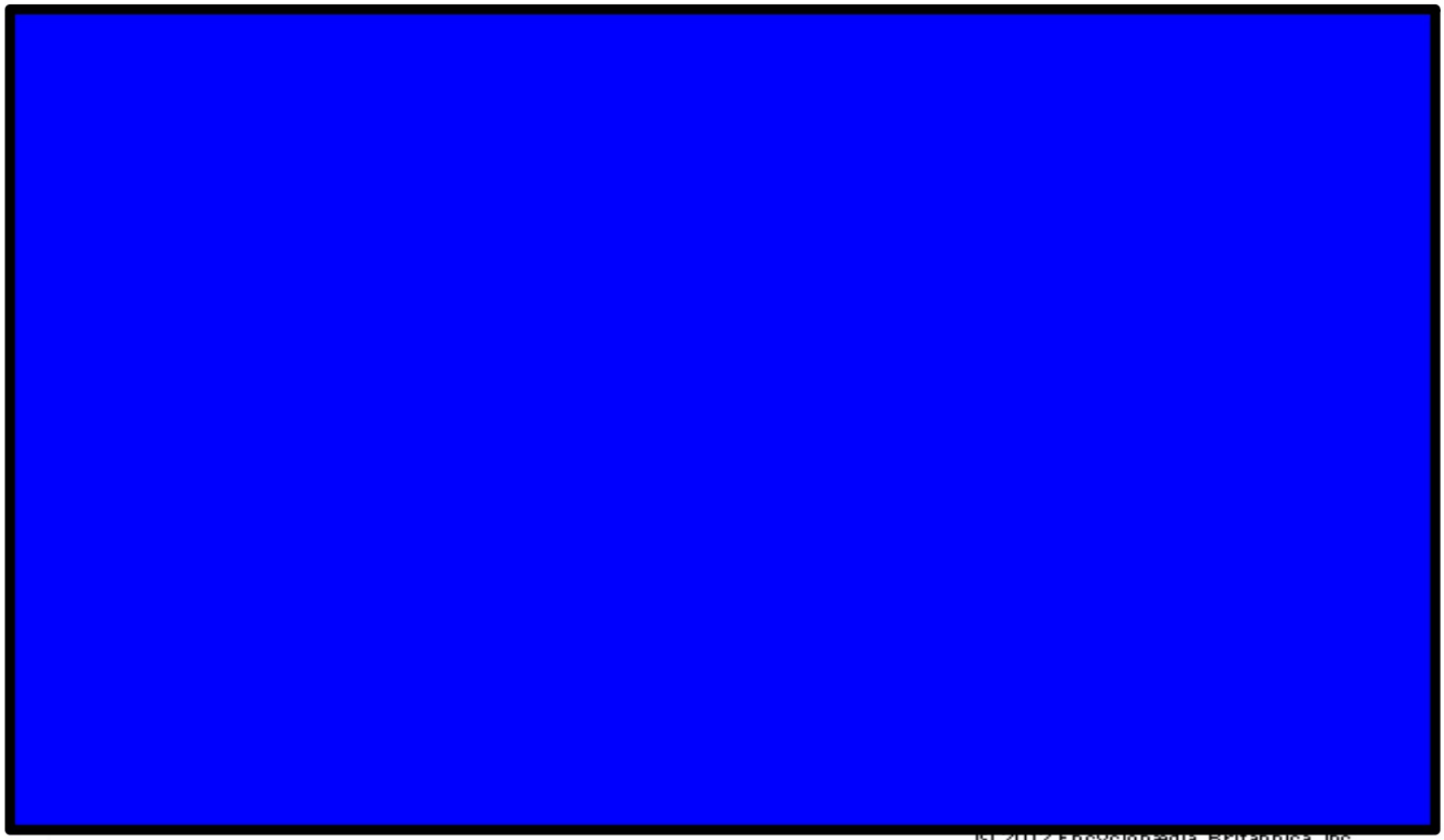


Medium

The type of matter a wave is traveling through

DSR Today

What's the frequency you can hear?



Results

Pitch and Loudness, what do you notice?

Sound C-Notes

Guiding Question: What changes in a wave when you change the volume and pitch of a sound?

Volume and Amplitude

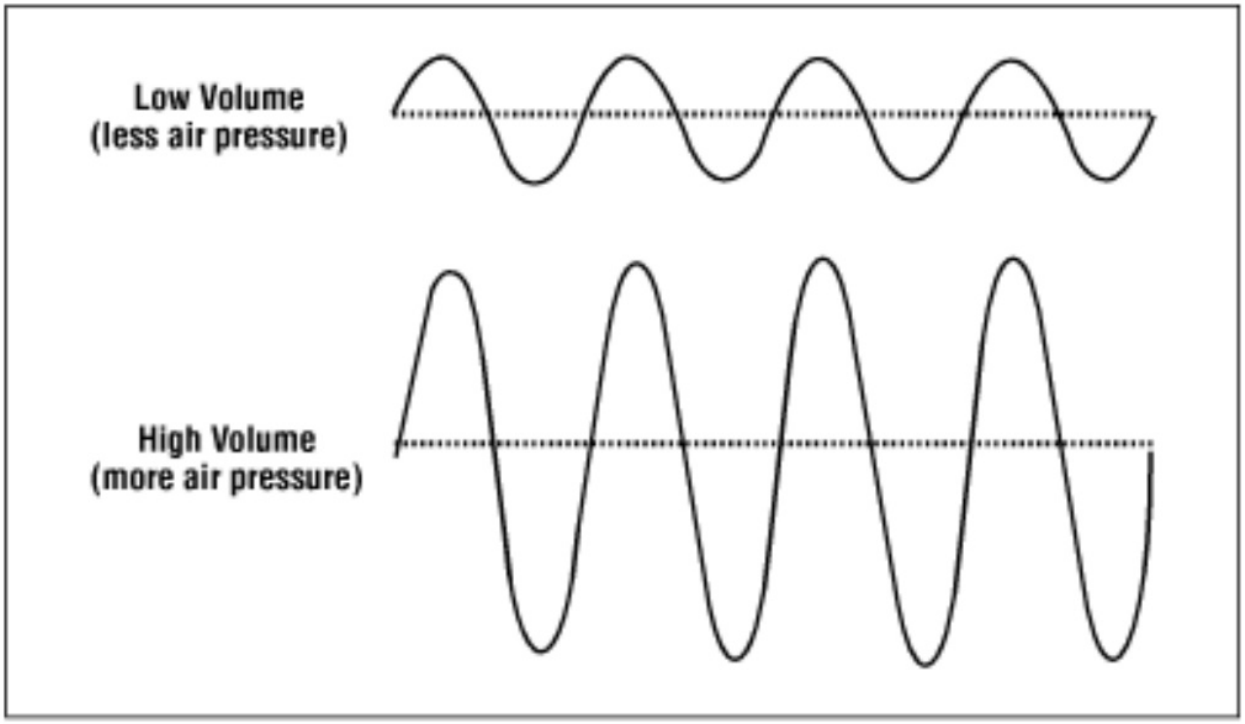
Pitch and frequency

Changing the speed of a wave

Volume and Pitch

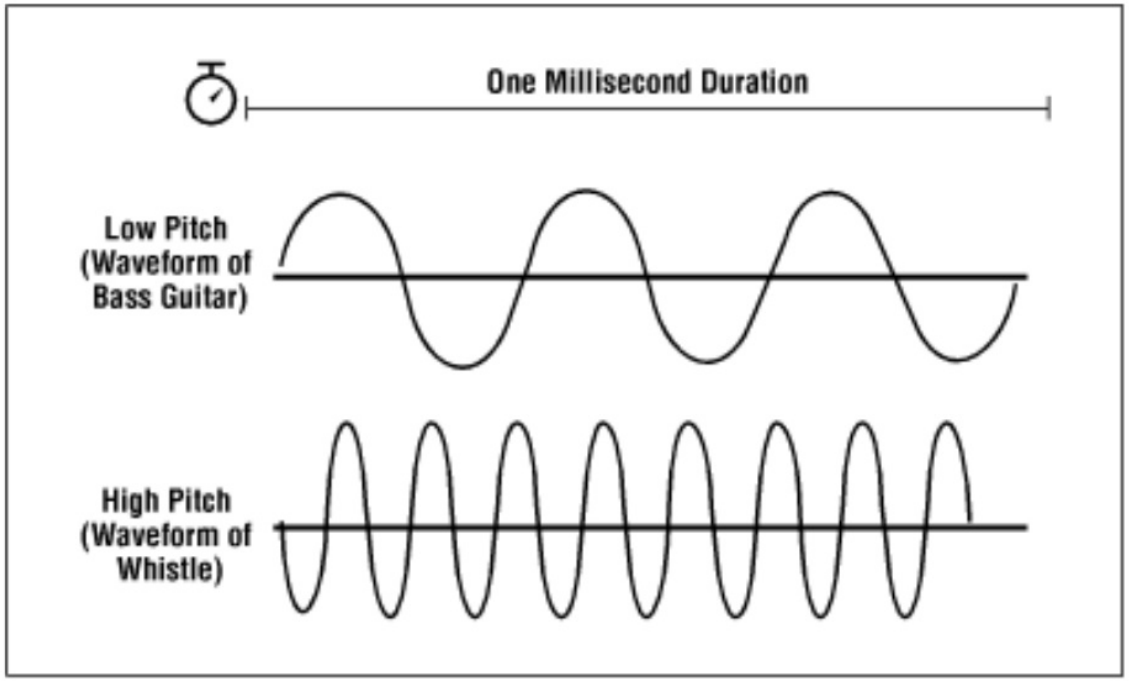
Volume and Amplitude

The larger the volume the larger the Amplitude



Pitch and Frequency

Higher the frequency, higher the pitch



Changing the speed of a wave

- What do you notice?
- Why Does this happen?

Changing the speed of a wave

The way to change the speed of a wave is to change the MEDIUM it is going through

My Explorations of Sound

Use the tuning forks, buckets of sand, and buckets of water to see what happens

Rule with the tuning forks: ONLY USE THE MALLET to start the fork

Find your own way to make sound and change the pitch and amplitude of the wave

Exit Ticket

Look in showbie for an exit ticket and homework

Sound Waves