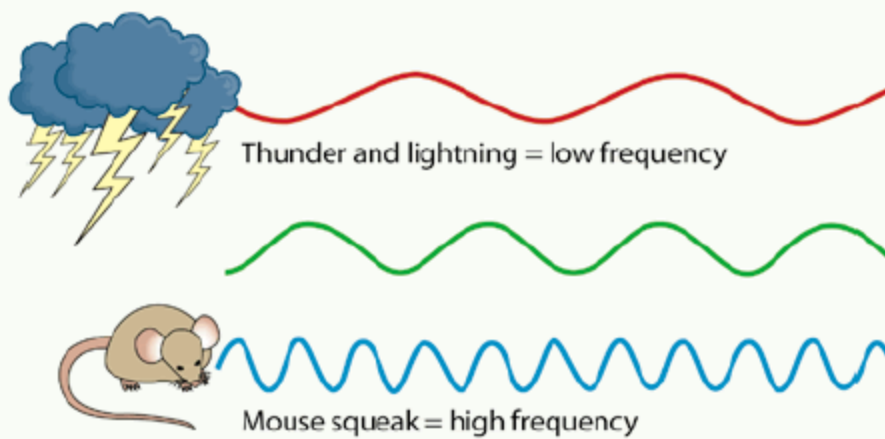


SINGING AND SOUND WAVES

Sound is a type of energy made by **vibrations**. When something **vibrates**, it moves tiny bits, or **particles**, of air.

Sound travels in **waves** when these particles shake their neighbors until they shake the air particles all around! For example, when you speak or sing, your **vocal chords vibrate** to produce sounds. You can feel the vibrations when you speak or sing if you put your fingers on your throat!



High sounds vibrate very fast, or have a high frequency. Low sounds vibrate slower, or have a low frequency.

TRY THIS!

Try making a very high-pitched sound with your voice. Do feel vibration in your face, especially your nose? Now try making a very low-pitched sound. You should feel vibration in your chest and back. Since your chest has **more space for sound**, the pitch is lower. For higher pitches, there's less space for sound, so the vibrations are **faster!**