

Sound (*Part Deux*) Notes



What is **resonance**?

What is the result of resonance?

The length of the air column is varied as the tube is lifted up and down in the water, the sound alternately becomes louder and softer. When does the sound become loudest?

What is the longest wavelength a string fixed at both ends can vibrate? What is this frequency called?

What are the second, third, fourth, etc harmonics?

How is **loudness** measured?

How is **pitch** measured? How can pitch be change in a musical instrument?

What is **timbre**?

Why does a clarinet sound different from a viola even if they are sounding the same note at the same volume?

What is a **beat** frequency? How is it produced?

How is the **beat** frequency calculated?