

Resonance Tubes & “Hoot” Tubes



Purpose: To demonstrate that various length percussion tubes have different natural resonance frequencies and that capping one end results in a lower natural frequency. Also, that higher frequencies (overtones) can be excited by faster air flow (hoot tubes).

Location: room 146, shelf O3

Strike the percussion tubes in sequence by length to show that longer tubes have lower pitched natural frequencies. Cap one of them and ask students what they think will happen to the natural pitch, then, strike it to find out.

The “Hoot” tubes resonate at their natural frequencies when whirled around. Whirl faster and excite higher frequency resonances.