**SOUND WAVES NOTES**

**If a tree falls in a forest and no one hears it, does the tree make a sound?**

**What has to occur for a sound to form?**

**What is a vibration?**

**What does a vibration do to the air molecules that surround the object making sound?**

**What type of wave is a sound wave?**

**Parts of a Longitudinal Wave:**

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**Does a sound wave travel in a straight line?**

**The Speed of Sound**

**At \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (about 20\*C), sound travels through air at about \_\_\_\_\_\_\_\_\_\_\_\_\_\_ meters per second!**

**The speed of sound depends on factors such as**

**1.**

**2.**

**What is temperature?**

**If a sound wave is moving through a hot substance, will it be easier or harder for the wave to travel?**

**Why?**

**What is Density?**

**Which would transfer sound more quickly? Solid, liquid, or gas?**

**Why?**

**Properties of Sound**

**1.**

**2.**

**What is Loudness?**

**What is Pitch?**

**What determines pitch?**

**What is frequency?**

**If more waves pass a point in a certain amount of time, the pitch will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**So the faster an object vibrates, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the pitch and vice versa.**