SOUND WAVES NOTES

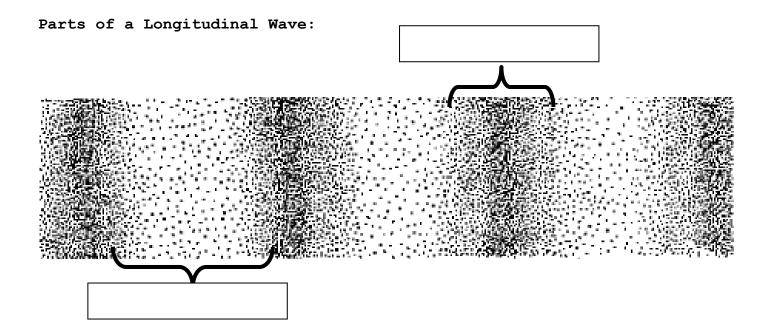
If a tree falls in a forest and no one hears it, does the tree make a sound?

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?



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?
Effect O
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.