

PHYSICS 1

STUDY GUIDE: SOUND

STUDY GUIDE

SOUND

Sound Waves

- **Sound waves** are longitudinal pressure waves where regions of high and low air pressure move as a wave.
- A volume of air consists of empty space and gas molecules (oxygen, nitrogen and more) which are constantly moving around. When the air is in a normal equilibrium state (no sound waves or other disturbances are present) the gas molecules are moving around but they are evenly spaced and the air pressure is the same everywhere.
- If the gas molecules get closer to each other there are more gas molecules per volume of space and the pressure in that region is higher. If the gas molecules get further from each other there are less gas molecules per volume of space and the pressure in that region is lower.
- If something causes a disturbance such as a moving object or a speaker playing music, the gas molecules directly next to the moving surface will also move, either towards or away from the neighboring gas molecules. This creates a region of high or low pressure. Soon after, the gas molecules (and their neighbors) will move from a high pressure region towards a low pressure region to reach equilibrium pressure again. However, this causes a "chain reaction" of moving gas molecules, and the result is that the region of high and low pressure moves in one direction away from the source of the disturbance. This is a sound wave.
- A physical sound wave is a moving region (or many regions in a row) of high and low pressure, but sound waves (and other longitudinal waves) are often represented as a visual sinusoidal wave where the vertical axis represents the air pressure. This may look like a transverse wave but it's just a representation of air pressure at each position.



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