

Physics 2nd Semester Key Concepts:

Hey,
nice words!



Heat Processes:

Adiabatic:

A process in which essentially no heat is lost or gained is referred to as...

Isothermal:

A process which is done in which the temperature does not change appreciably.

Beats:

If one tuning fork vibrates at 440 Hz and another at 443, the # of beats heard is the difference in their frequencies ($443 - 440 = 3$ beats).

When comparing the loudness of two sounds in dB (decibels), for example 60dB and 40 dB: first take the difference ($60 \text{ dB} - 40 \text{ dB} = 20 \text{ dB}$). Then change to Bels ($10 \text{ dB in } 1 \text{ Bel} \rightarrow 2 \text{ Bels}$). \rightarrow The 2nd sound is 10^2 or 100X louder.

When comparing the loudness of two sounds in dB (decibels) as recognized by your brain through your ears, for example 60dB and 40 dB: after taking the difference ($60 \text{ dB} - 40 \text{ dB} = 20 \text{ dB}$) as above, and changing to Bels ($10 \text{ dB in } 1 \text{ Bel} \rightarrow 2 \text{ Bels}$). \rightarrow The 2nd sound is heard by the ear not as 10^2 or 100X louder but as 2^2 or 4X louder.

Identifying pictures of types of waves:

Standing wave:



Longitudinal wave:



Transverse wave:



Electromagnetic wave:



Albert Einstein Significant Dates:

Special Relativity: 1905

General Relativity: 1915/1916

Sir Arthur Eddington verify Einstein's General Relativity theory during an eclipse of the sun: 1919

Nobel Prize received: 1921

Temperatures of a lake or pond frozen over: Bottom of pond is always 4°C since water is most dense there



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