

# Physics 2<sup>nd</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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:



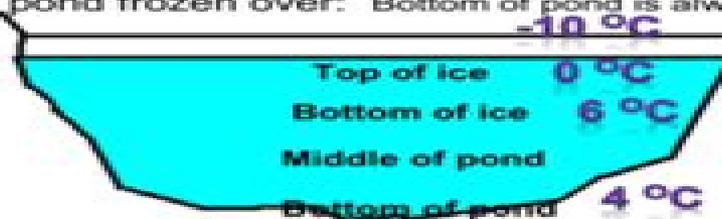
Electromagnetic wave:



## 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



# 2nd Semester Review Physics

**Wolfgang Guggemos**



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