

Physics 2nd Semester Key Concepts:



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 ($10 \text{ dB in 1 Bel} \rightarrow 2 \text{Bels}$). \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 ($10 \text{ dB in 1 Bel} \rightarrow 2 \text{Bels}$). \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:

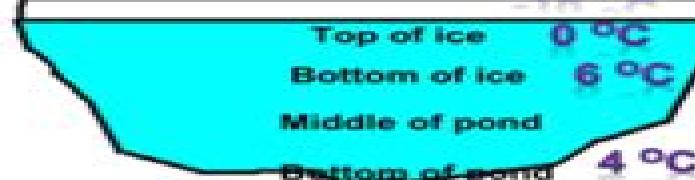
Special Relativity: 1905

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



2nd Semester Review Physics

**Northwestern Military and Naval
Academy (Lake Geneva, Wis.)**

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- Chapter 1: Introduction to 2nd Semester Review Physics
- Chapter 2: Essential Elements of 2nd Semester Review Physics
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- Chapter 4: 2nd Semester Review Physics in Specific Contexts
- Chapter 5: Conclusion

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5. In chapter 4, the author will scrutinize the relevance of 2nd Semester Review Physics in specific contexts. This chapter will explore how 2nd Semester Review Physics is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about 2nd Semester Review Physics. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of 2nd Semester Review Physics.

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