

## 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

**M Walker**



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## **Table of Contents 2nd Semester Review Physics**

1. Understanding the eBook 2nd Semester Review Physics
  - The Rise of Digital Reading 2nd Semester Review Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Review Physics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 2nd Semester Review Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Review Physics
  - Personalized Recommendations
  - 2nd Semester Review Physics User Reviews and Ratings
  - 2nd Semester Review Physics and Bestseller Lists
5. Accessing 2nd Semester Review Physics Free and Paid eBooks
  - 2nd Semester Review Physics Public Domain eBooks
  - 2nd Semester Review Physics eBook Subscription Services

- 2nd Semester Review Physics Budget-Friendly Options
- 6. Navigating 2nd Semester Review Physics eBook Formats
  - ePub, PDF, MOBI, and More
  - 2nd Semester Review Physics Compatibility with Devices
  - 2nd Semester Review Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Semester Review Physics
  - Highlighting and Note-Taking 2nd Semester Review Physics
  - Interactive Elements 2nd Semester Review Physics
- 8. Staying Engaged with 2nd Semester Review Physics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Semester Review Physics
- 9. Balancing eBooks and Physical Books 2nd Semester Review Physics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Semester Review Physics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Semester Review Physics
  - Setting Reading Goals 2nd Semester Review Physics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Semester Review Physics
  - Fact-Checking eBook Content of 2nd Semester Review Physics
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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