

## Physics 2<sup>nd</sup> 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 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 ( $10 \text{ dB in 1 Bel} \rightarrow 2 \text{Bels}$ ).  $\rightarrow$  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:

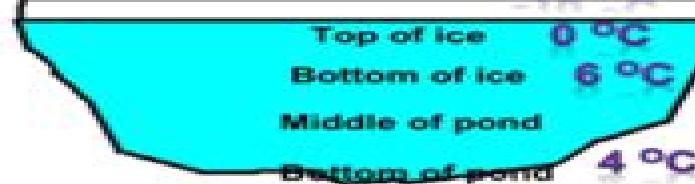
Special Relativity: 1905

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

**Charles Oliver Thompson**

## 2nd Semester Review Physics:

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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

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- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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