## Physical Science-Waves and Sound

- Waves and Energy
  - a. Wave terminology
    - Wave—a periodic back-and-forth motion or oscillation that transmits energy
    - Medium—the substance through which a wave transfers its energy
    - iii. Types of waves
    - Transverse waves—waves which oscillate at right angles to the direction of wave travel
      - 1. Crests-- High points in a wave
      - Troughs—Low points in a wave
    - Longitudinal waves—particles oscillate in the direction of the wave travel
      - Compression pulse—area in which particles are compressed together
      - 2. Rarefaction pulse-area in which particles are spread out
  - b. Wave attributes
    - i. Wavelength-(λ) the length of a single wave
    - ii. Amplitude—a measure of how tall a wave is or how compressed it is; this determines how much energy a wave has or how strong it is
    - iii. Frequency—the number of waves that pass a fixed point in a certain amount of time; the SI unit for frequency is the hertz (frequency=number of wave cycles/t
    - Speed—the rate of speed at which a wave travels (velocity=wavelength x frequency)
  - c. Wave behavior
    - Reflection—a change in direction that occurs when waves bounce off of an object
    - Refraction—the "bending" of a wave due entering a different medium
    - Diffraction—the spreading out of a wave after it passes through a narrow opening
    - iv. Interference—the reinforcement or cancellation that occurs when two or more waves collide with each other
      - 1. Constructive
      - 2. Destructive

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**Julia Schneider** 

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- 1. Understanding the eBook Physical Science Chapter 11 Study Guide
  - The Rise of Digital Reading Physical Science Chapter 11 Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Chapter 11 Study Guide
  - 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 Physical Science Chapter 11 Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Chapter 11 Study Guide
  - Personalized Recommendations
  - Physical Science Chapter 11 Study Guide User Reviews and Ratings
  - Physical Science Chapter 11 Study Guide and Bestseller Lists
- 5. Accessing Physical Science Chapter 11 Study Guide Free and Paid eBooks

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- Physical Science Chapter 11 Study Guide eBook Subscription Services
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- 6. Navigating Physical Science Chapter 11 Study Guide eBook Formats
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  - Physical Science Chapter 11 Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Chapter 11 Study Guide
  - Highlighting and Note-Taking Physical Science Chapter 11 Study Guide
  - Interactive Elements Physical Science Chapter 11 Study Guide
- 8. Staying Engaged with Physical Science Chapter 11 Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Chapter 11 Study Guide
- 9. Balancing eBooks and Physical Books Physical Science Chapter 11 Study Guide
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Physical Science Chapter 11 Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Chapter 11 Study Guide
  - Setting Reading Goals Physical Science Chapter 11 Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Chapter 11 Study Guide
  - Fact-Checking eBook Content of Physical Science Chapter 11 Study Guide
  - 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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