#### 7th Grade Science Final Study Guide

 A sound wave traveling through a solid material has a frequency of 250 hertz. The wavelength of the sound wave is 2 meters. What is the speed of sound in the material?

Speed = wavelength x frequency Speed = 2meters x 250 Hz = 500 m/s

A tuning fork is used to produce sound waves with a frequency of 220 hertz. The waves travel through the air at 340 m/s. What is the wavelength of the sound wave?

Wavelength = speed/frequency Wavelength = 340/220 = 1.55 meters

- What is the frequency of ocean waves that have a speed if 20 m/s and a wavelength of 50 m?
  Frequency = speed/wavelength
  Frequency = 20/50 = 0.4 Hz
- 4. A radio station transmits to a receiving antenna. What type of wave is the radio wave?

Radio waves are transverse waves and electromagnetic waves.

S. A student shakes the end of a rope with a frequency of 2.0 hertz, causing waves with a wavelength of 0.9m to travel along the rope. What is the velocity of the wave?

Speed = wavelength x frequency Speed =  $0.9 \times 2.0 = 1.8 \text{ m/s}$ 

6. On end of a horizontal string is caused to oscillate vertically while the other end is attached to a fixed object. What type of wave travels along the string?

A transverse wave travels along the string.

7. Why would astronauts on the moon not be able to hear a landslide (think about air molecules)?

Because sound waves need a medium to travel through (they are mechanical waves) and there is no medium (air) in space. If there are any air molecules in space, they are too far apart in space for the sound to be able to travel.

How are radio waves, visible light, and x-rays the same in a vacuum?

They all travel the same speed (speed of light).

Where can sound waves not travel?

Sound waves cannot travel in a vacuum (such as outer space).

10. What is a rarefaction? Give an example.

A rarefaction is a part of a compressional wave where the particles are more spread out.



# **Lousiana 7th Grade Science Study Guide**

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#### **Table of Contents Lousiana 7th Grade Science Study Guide**

- 1. Understanding the eBook Lousiana 7th Grade Science Study Guide
  - The Rise of Digital Reading Lousiana 7th Grade Science Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Lousiana 7th Grade Science 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 Lousiana 7th Grade Science Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lousiana 7th Grade Science Study Guide
  - Personalized Recommendations
  - Lousiana 7th Grade Science Study Guide User Reviews and Ratings
  - Lousiana 7th Grade Science Study Guide and Bestseller Lists
- 5. Accessing Lousiana 7th Grade Science Study Guide Free and Paid eBooks
  - Lousiana 7th Grade Science Study Guide Public Domain eBooks
  - Lousiana 7th Grade Science Study Guide eBook Subscription Services
  - Lousiana 7th Grade Science Study Guide Budget-Friendly Options

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

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