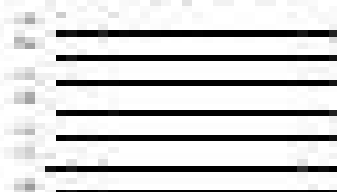


Unit 10. Electromagnetic Spectrum

1. The electromagnetic spectrum is divided into seven. Label each region with an example.



2. Label each region:

- Radio waves _____ (radio waves are used for communication)
- Other regions contain a spectrum of electromagnetic waves that have different _____
- The _____ is the length of the wave.
- The frequency of the wave is the number of waves that pass a point in a given time.
- Electromagnetic waves are made of electric and magnetic fields that oscillate at right angles to each other.



- What is the wavelength of the radio waves? _____
- What is the frequency of the radio waves? _____
- What is the wavelength of the microwave? _____

3. Explain in words and mathematically why the wavelength of the electromagnetic spectrum is inversely proportional to the frequency.

4. wavelength and frequency

5. wavelength and frequency

6. Calculate the wavelength of the electromagnetic wave that has a frequency of 10^6 Hz. The speed of the wave is 3×10^8 m/s.

7. What happens to the wavelength of the electromagnetic wave as the frequency increases?

8. Calculate the frequency of the electromagnetic wave that has a wavelength of 10^6 m.

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Table of Contents Unit Ix Ws2 Guide

1. Understanding the eBook Unit Ix Ws2 Guide
 - The Rise of Digital Reading Unit Ix Ws2 Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit Ix Ws2 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 Unit Ix Ws2 Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit Ix Ws2 Guide
 - Personalized Recommendations
 - Unit Ix Ws2 Guide User Reviews and Ratings
 - Unit Ix Ws2 Guide and Bestseller Lists
5. Accessing Unit Ix Ws2 Guide Free and Paid eBooks
 - Unit Ix Ws2 Guide Public Domain eBooks
 - Unit Ix Ws2 Guide eBook Subscription Services
 - Unit Ix Ws2 Guide Budget-Friendly Options

6. Navigating Unit Ix Ws2 Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit Ix Ws2 Guide Compatibility with Devices
 - Unit Ix Ws2 Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit Ix Ws2 Guide
 - Highlighting and Note-Taking Unit Ix Ws2 Guide
 - Interactive Elements Unit Ix Ws2 Guide
8. Staying Engaged with Unit Ix Ws2 Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unit Ix Ws2 Guide
9. Balancing eBooks and Physical Books Unit Ix Ws2 Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit Ix Ws2 Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Unit Ix Ws2 Guide
 - Setting Reading Goals Unit Ix Ws2 Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Unit Ix Ws2 Guide
 - Fact-Checking eBook Content of Unit Ix Ws2 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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