

# THE ELECTROMAGNETIC SPECTRUM

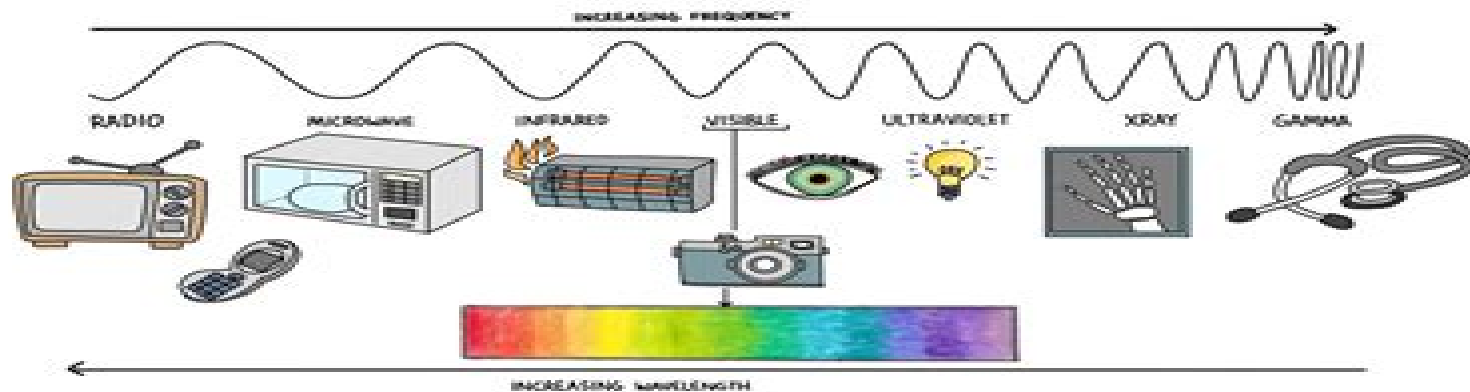
EM waves are transverse waves and travel at the same speed in a vacuum. Radio waves have the longest wavelength and the shortest frequency, whereas gamma rays have the shortest wavelength and the highest frequency.

Radio	Ripped
Micro	Men
Infrared	In
Visible light	Violet
Ultraviolet	Underpants (are)
X-ray	extremely
Gamma	Gorgeous



## Uses of EM radiation

Radio waves - TV and radio broadcasting  
Microwaves - satellite TV, mobile phone communications and in microwave ovens for heating food  
Infrared - used in heating devices such as heaters and grills  
Visible light - optical fibre communications and photography  
Ultraviolet - used in fluorescent lamps and for detecting forged banknotes  
X-ray - detection of broken bones and fractures  
Gamma - sterilisation of food and medical equipment



## Dangers of EM waves

Small amounts of exposure to EM waves is harmless but repeated exposures to large doses of EM radiation can have serious health consequences. In general, the higher the frequency of radiation, the more dangerous it is.

Microwaves can heat the water inside our cells so microwave ovens have a coating to shield microwaves from the user.

Infrared radiation can cause skin burns and skin cancer. Insulating materials are used for protection.

Ultraviolet radiation can cause damage to surface cells and blindness. UV can mutate DNA and cause cancer. Suncream can protect against UV exposure.

Gamma radiation can penetrate cells and mutate DNA, leading to tissue damage or cancer. People who work with gamma radiation will limit the time they are exposed. Sources of gamma rays are kept in a lead lined box.

## Questions

1. List the types of radiation in the electromagnetic spectrum from the lowest frequency to the highest frequency.
2. Are EM waves classed as transverse or longitudinal?
3. Gamma radiation is used in hospitals even though it can be dangerous.
  - a) Describe one use of gamma radiation in hospitals.
  - b) Explain the risk to patients and doctors of using gamma radiation.
  - c) State one way of reducing the risks to a doctor who uses gamma radiation.
4. Name two types of EM waves that are used for communications.
5. Name two types of EM waves that are used for cooking.
6. Ultrasound waves are used in hospitals to produce an image of a fetus. Ultraviolet waves are used by doctors to cure some skin conditions. Suggest two differences between ultrasound and ultraviolet waves.

# Electromagnetic Spectrum Worksheet 1 Answer Key

**Tao Wei**



## **Electromagnetic Spectrum Worksheet 1 Answer Key:**

## Reviewing **Electromagnetic Spectrum Worksheet 1 Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Electromagnetic Spectrum Worksheet 1 Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://staging.conocer.cide.edu/public/Resources/default.aspx/Little%20Of%20Riding%20And%20Pony%20Care.pdf>

### **Table of Contents Electromagnetic Spectrum Worksheet 1 Answer Key**

1. Understanding the eBook Electromagnetic Spectrum Worksheet 1 Answer Key
  - The Rise of Digital Reading Electromagnetic Spectrum Worksheet 1 Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetic Spectrum Worksheet 1 Answer Key
  - 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 Electromagnetic Spectrum Worksheet 1 Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electromagnetic Spectrum Worksheet 1 Answer Key
  - Personalized Recommendations
  - Electromagnetic Spectrum Worksheet 1 Answer Key User Reviews and Ratings
  - Electromagnetic Spectrum Worksheet 1 Answer Key and Bestseller Lists

5. Accessing Electromagnetic Spectrum Worksheet 1 Answer Key Free and Paid eBooks
  - Electromagnetic Spectrum Worksheet 1 Answer Key Public Domain eBooks
  - Electromagnetic Spectrum Worksheet 1 Answer Key eBook Subscription Services
  - Electromagnetic Spectrum Worksheet 1 Answer Key Budget-Friendly Options
6. Navigating Electromagnetic Spectrum Worksheet 1 Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Electromagnetic Spectrum Worksheet 1 Answer Key Compatibility with Devices
  - Electromagnetic Spectrum Worksheet 1 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electromagnetic Spectrum Worksheet 1 Answer Key
  - Highlighting and Note-Taking Electromagnetic Spectrum Worksheet 1 Answer Key
  - Interactive Elements Electromagnetic Spectrum Worksheet 1 Answer Key
8. Staying Engaged with Electromagnetic Spectrum Worksheet 1 Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electromagnetic Spectrum Worksheet 1 Answer Key
9. Balancing eBooks and Physical Books Electromagnetic Spectrum Worksheet 1 Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electromagnetic Spectrum Worksheet 1 Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electromagnetic Spectrum Worksheet 1 Answer Key
  - Setting Reading Goals Electromagnetic Spectrum Worksheet 1 Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electromagnetic Spectrum Worksheet 1 Answer Key
  - Fact-Checking eBook Content of Electromagnetic Spectrum Worksheet 1 Answer Key
  - 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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