

THE ELECTROMAGNETIC SPECTRUM

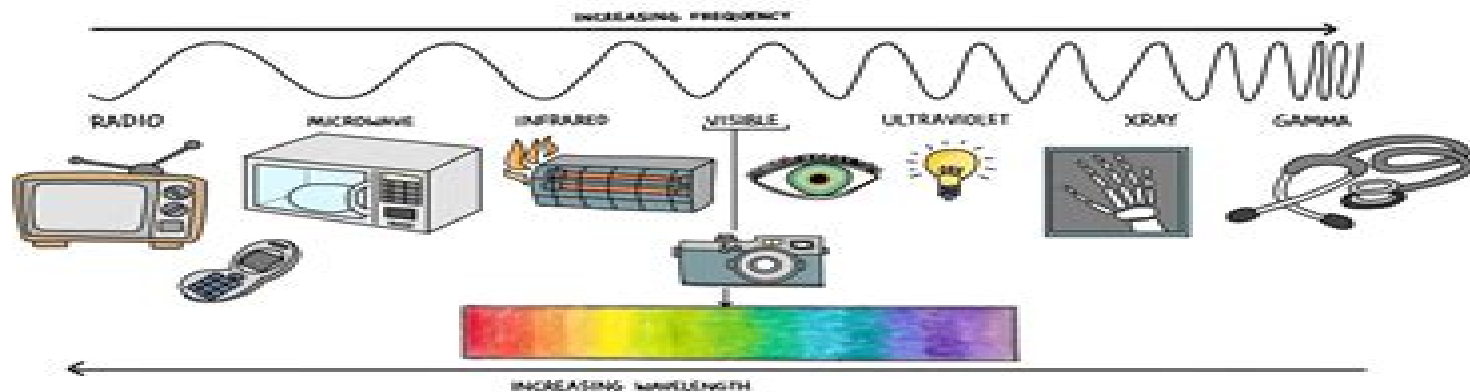
EM waves are transverse waves and travel at the same speed in a vacuum. Radio waves have the longest wavelength and the shortest frequency, whereas gamma rays have the shortest wavelength and the highest frequency.

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
 Infra-red - 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

Jicheng Xie



Electromagnetic Spectrum Worksheet 1 Answer Key:

The Top Books of the Year Electromagnetic Spectrum Worksheet 1 Answer Key The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Electromagnetic Spectrum Worksheet 1 Answer Key : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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