

THE ELECTROMAGNETIC SPECTRUM

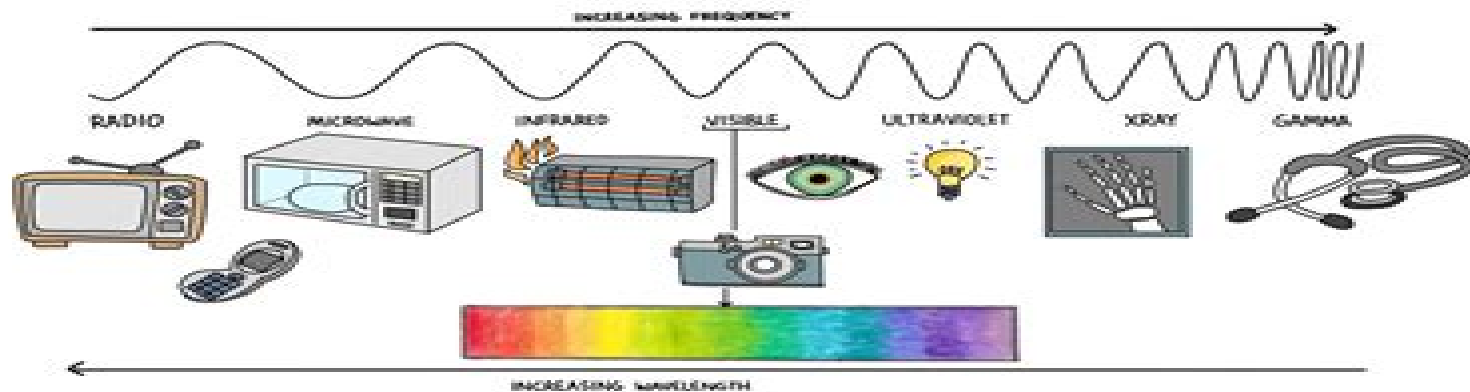
EM waves are transverse waves and travel at the same speed in a vacuum. Radio waves have the longest wavelength and the shortest frequency, whereas gamma rays have the shortest wavelength and the highest frequency.

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.

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