

WJEC England GCSE Physics

6.1 - Frequency Range of the Spectrum

Flashcards

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What type of waves are electromagnetic waves?



What type of waves are electromagnetic waves?

Transverse waves.



What type of spectrum do
electromagnetic waves form?



What type of spectrum do electromagnetic waves form?

A continuous spectrum.



What do electromagnetic waves do?



What do electromagnetic waves do?

They transfer energy from their source to an absorber.



Why can we not see most electromagnetic waves?



Why can we not see most electromagnetic waves?

Electromagnetic waves have a very large range of frequencies, most of which are outside the frequency range detected by the human eye.



Which group of electromagnetic waves
can we see?



Which group of electromagnetic waves can we see?

Visible light.



Why does an object's temperature increase when infrared radiation is shone on it?



Why does an object's temperature increase when infrared radiation is shone on it?

Infrared radiation is an electromagnetic wave. It transfers energy from the source to the object, resulting in a temperature increase.



Order the types of electromagnetic radiation from lowest to highest frequency.



Order the types of electromagnetic radiation from lowest to highest frequency.

- Radio waves
- Microwaves
- Infrared
- Visible Light
- Ultraviolet
 - X-rays
- Gamma Rays



How do the speeds of EM radiation differ
in a vacuum and in air?



How do the speeds of EM radiation differ in a vacuum and in air?

Electromagnetic waves all travel at the same speed in a vacuum and in air.

