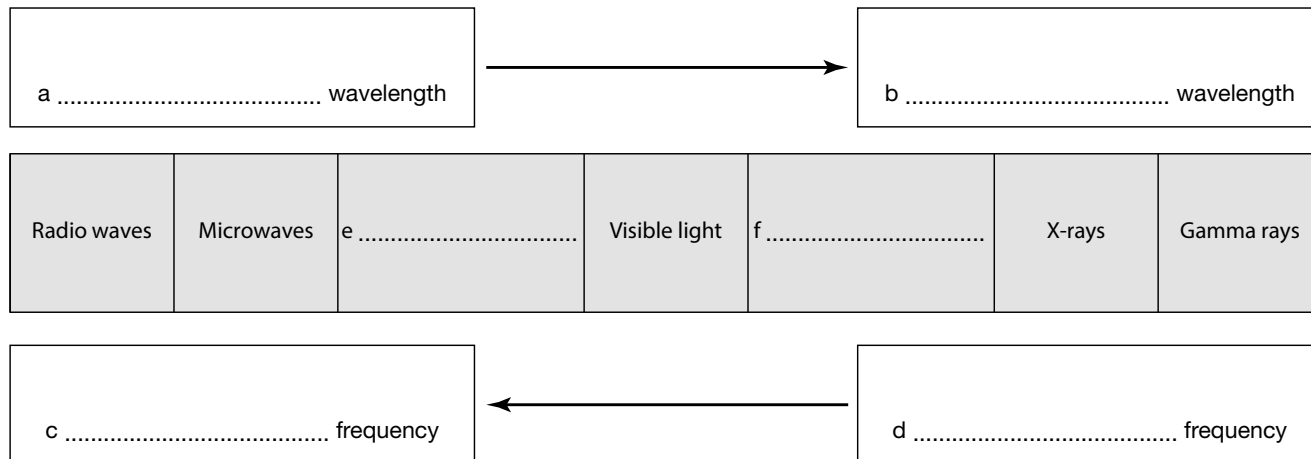


Electromagnetic waves

Complete the following table. (6 marks, ★★★)

Type of electromagnetic waves



WORKIT!

A radio wave passes into a metal TV aerial.

Explain what effect the radio wave has on the metal TV aerial. (3 marks, ★★)

Radio waves can be absorbed by the metal TV aerial. (1)

The radio waves may induce an alternating current. (1)

The alternating current has the same frequency as the radio wave that induced it. (1)

NAILIT!

For waves, wavelength (λ) and frequency (f) are inversely proportional to each other. If the frequency has a very high value, then the wavelength has to be very short.