

Electromagnetic radiation
Worksheet 2

- 1. Calculate the frequency of red light that has a wavelength of 6.5×10^{-5} cm.**

- 2. Calculate the wavelength of infrared radiation that has a frequency of 6×10^{13} Hz.**

- 3. Calculate the energy of gamma rays with a frequency of 5.9×10^{18} Hz.
Calculate energy for ultraviolet light with a wavelength of 6.7×10^{-7} m.**

- 4. Calculate wavelength when the energy is 533 Joules.**

- 5. Calculate frequency when the energy is 4620 Joules.**

- 6. Calculate energy for microwaves with a wavelength of 13 cm.**

- 7. Calculate the wavelength and energy for a FM radio station that broadcasts at a frequency of 102 MHz. (1 MHz = 1 million Hz)**