Wavelength, Frequency, and Energy

1.	A laser will emit light with a wavelength of 650 nm. What is the frequency of this light?
2.	The frequency of radiant energy is 5.55×10^{14} Hz. In what region of the electromagnetic spectrum is this? What is the color of the light? (Hint: Calculate the wavelength)
	What is the energy, in kJ, of a photon that has a wavelength of 2.46 \times 10 2 m?
4.	Some sunburn occurs when exposed to light with a wavelength of 325 nm. What is the energy of 1.5 moles of these photons? How many photons are in a 1.50 mJ burst of this radiation?
5.	The work function, Φ , is 437 kJ/mol for copper. What is the threshold frequency? What wavelength does this correspond to?