

Name: _____ Date: _____ Period: _____

Ranges of Frequencies and Wavelengths Across the EM Spectrum

EM Wave Type	Radio	Infrared	Visible Light	Ultraviolet	X-Ray	Gamma
Frequency Range (Hz)	$10^4 - 10^{12}$	$10^{12} - 10^{14}$	$10^{14} - 10^{15}$	$10^{15} - 10^{18}$	$10^{16} - 10^{21}$	$10^{19} - 10^{24}$
Wavelength Range (m)	$10^4 - 10^{-4}$	$10^{-4} - 10^{-6}$	$10^{-6} - 10^{-7}$	$10^{-7} - 10^{-10}$	$10^{-8} - 10^{-13}$	$10^{-11} - 10^{-16}$

Ranges of Wavelengths for Colors of Visible Light

Color	Wavelength Range
Red	620 nm to 720 nm
Orange	597 nm to 620 nm
Yellow	577 nm to 597 nm
Green	492 nm to 577 nm
Blue *	455 nm to 492 nm
Violet	390 nm to 455 nm

* Indigo is omitted from this list because many sources do not include it as one of the basic colors of visible light.