

# *The Electromagnetic Spectrum*





The Artist

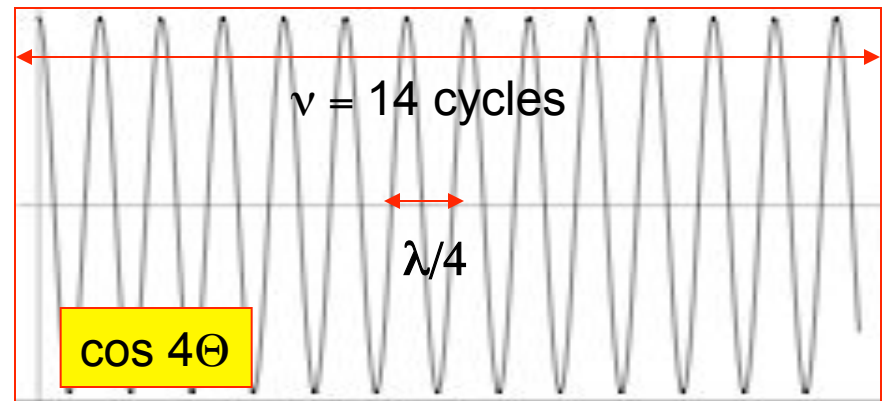
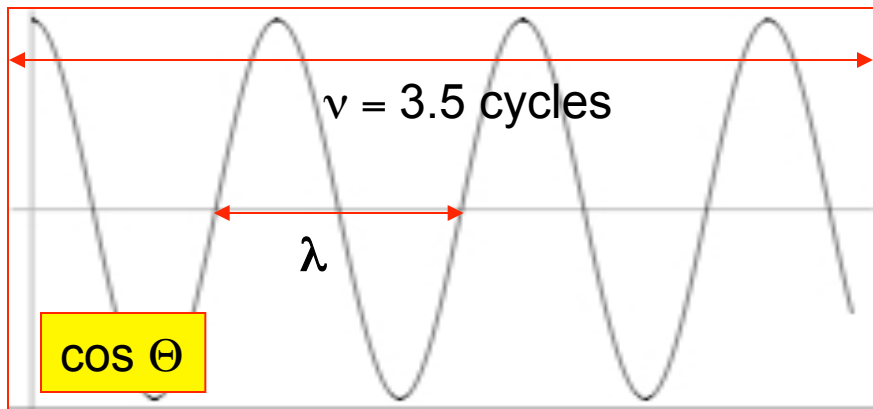


Her Tools

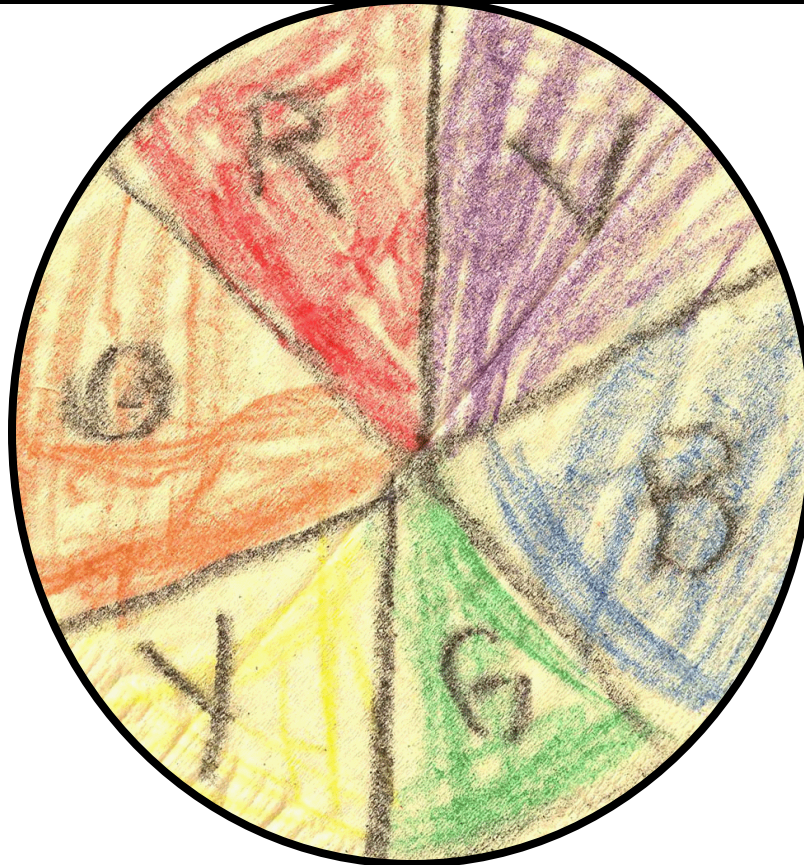




While waiting  
for food, the Artist  
must be entertained.



lower energy  
lower frequency  
higher wavelength



higher energy  
higher frequency  
lower wavelength

$$\Delta E = h\nu$$

$$\Delta E = hc/\lambda$$

$$c \text{ cm/sec} = (\lambda \text{ cm})(\nu \text{ sec}^{-1})$$

$$c = 3 \times 10^{10} \text{ cm/sec}$$

$h$  = Planck's constant

$$1.58 \times 10^{-37} \text{ kcal-sec}$$

