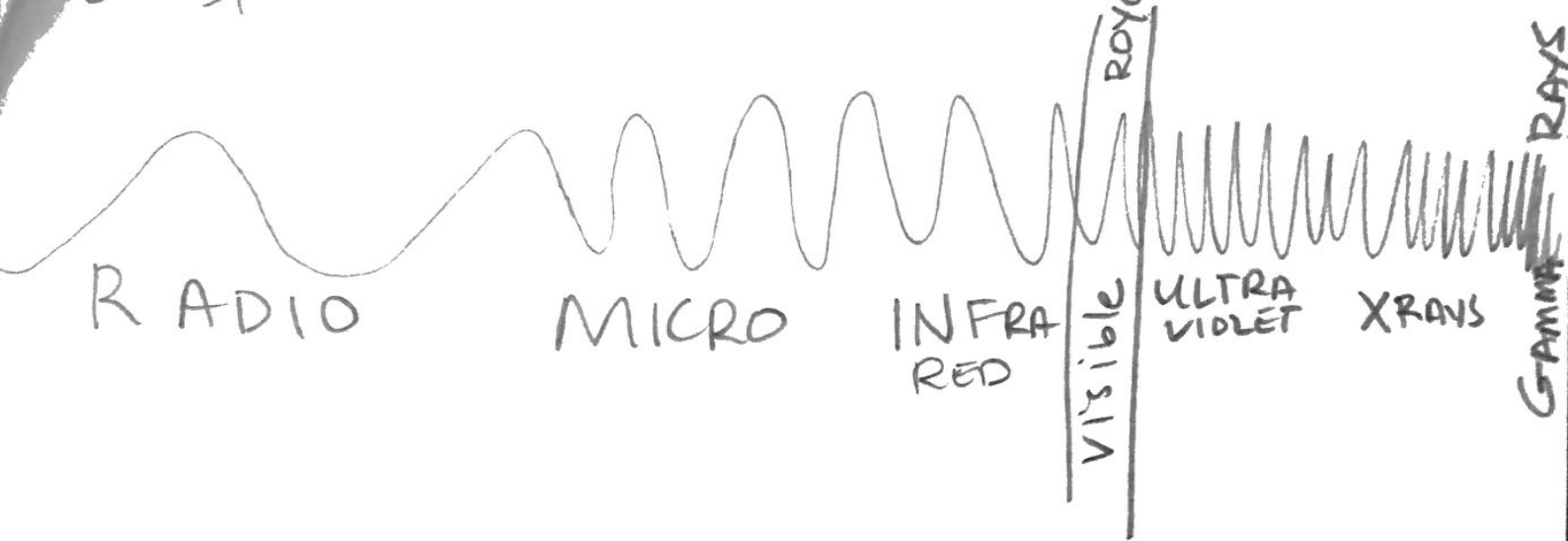


1. EM Spectrum



2. Visible Spectrum Colors :

ROY G BIV = Red Orange Yellow Green Blue Indigo Violet

What color has the greatest energy: Red or Blue?

BLUE (Remember - Radio is low, Gamma is high frequency)

Which EM wave has the highest frequency: Microwave or Radio?

MICROWAVE

What is the number and units for the speed of light?

3.0×10^8 m/s
number units

(Remember: Speed = $\frac{\text{distance}}{\text{time}}$,
so units are m/s)

How fast does an Infrared wave travel?

3.0×10^8 m/s

ALL EM WAVES TRAVEL AT THE SAME SPEED

7. What has a longer wavelength: Xray or UV?

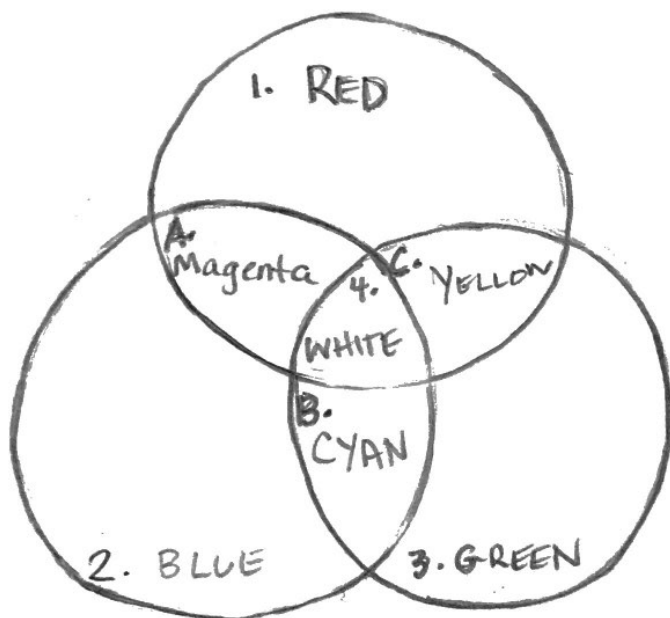
UV

(Remember: Radio has Longest wavelength, Gamma has Shortest wavelength)

8. What type of waves do cell phones use for communication?

MICRO WAVES

9.



10. What is the formula for Snell's Law

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

Drawn:

air

water

