The Electromagnetic Spectrum

https://imagine.gsfc.nasa.gov/science/toolbox/emspectrum1.html

https://science.nasa.gov/ems/01_intro

https://www.youtube.com/watch?v=HPcAWNlVl-8

Draw and label the Electromagnetic Spectrum (use the websites above to help you)

- *Include ONE continuous wave with proper wavelengths.
- *Include LABELS for each type of electromagnetic radiation.

Electromagnetic Spectrum 3- Column T-Chart Directions: Fill in the chart with the information using the different kinds of electromagnetic radiation.

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Radiation Type	What produces or uses this type of radiation?	What do you know about this type of radiation?
GAMMA RAYS		
X-RAYS		
ULTRAVIOLET LIGHT		
VISIBLE LIGHT		
INFRARED LIGHT		
MICROWAVES		
RADIO WAVES		

Matching: Place the letter and the definition next to the word.

RADIO WAVES	A. Helps you change the channels on your TV
 MICROWAVES	B. Found in space and nuclear explosions
 INFRARED	C. Used to see your bones
 VISIBLE LIGHT	D. Used to pop popcorn
 ULTRAVIOLET	E. When they move from one energy level to the next, they emit electromagnetic radiation
 X-RAYS GAMMA RAYS	F. Sometimes it behaves like a wave, sometimes like particles
 ELECTRONS	G. Used to transmit radio and television signals as well as cell phone signals
 RADIATION	H. Contains the colors of the rainbow
	I. Occurs naturally in sunlight; most of it is blocked by the ozone layer

THINK ABOUT IT

What is the relationship between wavelength and energy in a wave?		