

MAKER JOURNAL


Name: _____

Date: _____

Project/Unit: Early Warning Systems

Lesson: 2

Use the chart below to assemble the spectrum bracelet. Remember to use the correct bead color for each type of light and to sequence them correctly. Refer to the picture below the chart.

Type	Description	Length	Bead
Radio	Invisible, lowest energy	30000 m to 100 m	clear
Micro-wave	Invisible	30 cm to 1 cm	clear
Infrared (IR)	Invisible	1 mm to 0.7 mm	black
Visible Light		700 nanometers (nm) to 400 nm	Red, orange, yellow, green, blue, indigo, violet (ROYGBIV)
Ultra-violet (UV)	Invisible	400 nm to 10 nm	White color
X-ray	Invisible	3 nm to 0.03 nm	glow-in-dark
Gamma	Invisible, very high energy	0.03 nm to 0.003 nm	clear





MAKER JOURNAL

Name: _____

Date: _____

Use the information in the chart and web research to answer the following questions.

Questions:

Why is the EM spectrum arranged as it is?

How is the frequency of a light wave related to its wavelength?

How can the spectrum bracelet be used to describe instances where light is reflected or absorbed?