

Name: _____
Mr. Willis
Conceptual Physics: _____
Date: _____

Unit VIII
Electromagnetic Spectrum & Light
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VIII

Electromagnetic Spectrum Computer Activity

Objective: The purpose of this activity is to illustrate the relationship between various types of electromagnetic waves.

Give the range of frequencies and the range of wavelengths for each of the following (include appropriate units):

- power waves _____
- radio waves _____
- microwaves _____
- infrared _____
- visible light _____
- ultraviolet _____
- x rays _____
- gamma rays _____
- cosmic rays _____

Draw a diagram of the electromagnetic spectrum. (Page 529) Include illustrations of **examples** of each of the types of waves. Show the approximate length of each type of wave. Be sure to include the various colors of visible light. Keep the drawing accurate in terms of relative scale of each type of wave.

Conclusion: Explain how you can use the EM spectrum to predict wave behavior.
