

# ELECTROMAGNETIC RADIATION NOTES

## Side A

### Superhero Screencasts

Review all of your group's drawings and record each rays' definition, advantages, and disadvantages.

Types of Rays	Definition	Advantage	Disadvantages
Radio			
Microwave			
Infrared			
Visible light			
Ultraviolet light			
X-ray			
Gamma			



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## Side B

### Electromagnetic Spectrum Article Questions

1. Describe how wave frequency changes across the electromagnetic spectrum, from radio waves to gamma rays.
2. List three uses of radio waves.
3. How are X-rays and gamma rays used in medicine?
4. What are some tips you would give for protecting the skin from ultraviolet light?
5. Explain two ways that sounds can be encoded in electromagnetic waves.
6. Visible light interacts with matter in certain characteristic ways. Based on your own experiences with visible light, how does it interact with matter? (Hint: What happens to visible light when it strikes a wall, window, or mirror?)

*Source:* Questions derived from CK-12 Foundation. (2012, December 14). Electromagnetic Spectrum. <https://www.ck12.org/book/ck-12-physical-science-for-middle-school/r1/section/20.3/>



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