

Name: \_\_\_\_\_ Section: \_\_\_\_\_  
Electromagnetic Spectrum & Light - Webquest

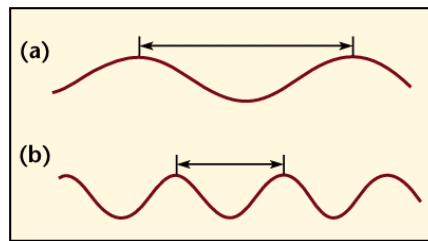
[Electromagnetic Spectrum](http://imagine.gsfc.nasa.gov/docs/science/known1/emspectrum.html) (<http://imagine.gsfc.nasa.gov/docs/science/known1/emspectrum.html>)

Click on the link above and answer the following questions:

1. What is the electromagnetic spectrum?
  
2. What is radiation?
  
3. While at the website (<http://imagine.gsfc.nasa.gov/docs/dictionary.html>), roll the mouse over each of the following words and write what comes up in the box to describe each.
  - a. [visible light](#)
  
  - b. [microwaves](#)
  
  - c. [gamma-rays](#)
  
  - d. [infrared](#)
  
  - e. [ultraviolet light](#)
  
  - f. [X-rays](#)
  
  - g. [radio waves](#)

4. What is the order of the electromagnetic spectrum from **highest to lowest energy**?

Use the visual below to answer question 5.



*(a) Longer wavelength; (b) shorter wavelength*

5. Which has more energy, A or B? Explain your reasoning.
6. Define a wavelength.
7. What is a frequency of a wavelength?
8. For **visible light** (ROYGBIV), which has the shortest wavelength? Which has the longest? Place all the other colors in order based on their wavelength from shortest to longest.



