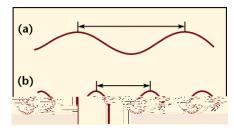
Name:	Section:
Electromagnetic Spectrum & Light - Webquest	
Electromagnetic Spectrum (http://imagine.gsfc.nasa.gov/do	ocs/science/know_l1/emspectrum.html)
Click on the link above and answer the following o	questions:
1. What is the electromagnetic spectrum?	
2. What is radiation?	
3. While at the website (	

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.

## $\underline{Electromagnetic\ Spectrum}\ (\underline{http://www.lbl.gov/MicroWorlds/ALSTool/EMSpec/EMSpec2.html})$

9.

on the link above and answer the following questions:
What kind of electromagnetic radiation has the shortest wavelength? The longest?
What kind of electromagnetic radiation could be used to "see" molecules? A cold virus? Explain your reasoning.
Why can't you use visible light to "see" molecules?
Some insects, like bees, can see light of shorter wavelengths than humans can see. What kind of radiation do you think a bee sees? Explain your reasoning.

## $\underline{Behaviour\ of\ Light}\ \ \underline{(http://camillasenior.homestead.com/optics3.html)}$

- 10. Click on the link above and answer the following questions:
  - a. What is reflection?
  - b. Draw a picture of an angle of incide