NAME	Answer	KEV 3-1		
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Inspecting the Spectrum						
The chart below shows the electromag	gnetic spectrum. Study the diagram of the spectrum					

Shortest waves		Long	est waves
	/	\bigwedge	\bigcirc
- Gamma rays - Ultra - Infrared violet Visible light	Radar T	-Radio waves	i

- 1. Are X rays longer or shorter than radio waves? ____Shorter
- 2. Are all gamma rays shorter than X rays? Explain your answer. No there is
- 3. Which are longer—AM radio waves or TV waves? AM radio
- 4. Can you see radio waves? How does their position on the electromagnetic spectrum demonstrate this? No they are longer than the wavelength our eyes see.
- 5. How does the wavelength of waves used in microwave ovens compare with the wavelength of waves used for radar? They over ap
- 6. Which color of visible light has the longest wavelength? The shortest? Real is longest
- 8. What is the dictionary definition of the prefix ultra? How does this relate to the location of ultraviolet wavelengths on the electromagnetic spectrum? Utra means beyond or above so ultra violet is just shorter than visible violet higher energy than violet
- 9. Ultraviolet rays cause sunburn. and X rays can penetrate deep inside our bodies. Gamma rays kill cancer cells. What does this show about how living material is affected by the shortest wavelengths in the electromagnetic spectrum? The shorter the wavelength the more changing the energy is to living tissue.