

[Spelling must be exactly correct!]

1. [6 points]

	List the 12 types of electromagnetic wave, including the 6 colors and the 6 invisible types of wave, in order from lowest to highest frequency. Circle the six <i>visible</i> waves.
Lowest Frequency	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.
Highest Frequency	12.

2. Did you remember to circle the six visible waves? Don't forget!

[note on questions 3 – 5: you must use appropriate diction when comparing wavelength, frequency, and energy.]

**3.** Using the words *frequency*, *wavelength*, and *energy*, compare MICROWAVE waves with X-RAY waves: [3 points]

**4.** Using the words *frequency*, *wavelength*, and *energy*, compare INFRARED waves with GAMMA rays: [3 points]

**5.** Using the words *frequency*, *wavelength*, and *energy*, compare orange light waves with ultraviolet light: [3 points]

**6.** What TV theme song begins:  
“Here’s the story  
of a lovely lady”