ictual LAB - Chapter 26.1 Name

Electromagnetic Waves

What is the electromagnetic spectrum?

Question 1: As you move from left to right on the electromagnetic spectrum, What happens to frequency? What happens to wavelength?

Question 2: Arrange the following types of electromagnetic waves in order by wavelength, from longest to shortest:

Gammarays

Visible light

infrared radiation

Ultraviolet radiation

Microwaves

Radio waves

X ravs

Question 3: What kinds of electromagnetic waves have the lowest frequencies? What kinds have the highest frequencies?

Question 4: Which type of electromagnetic waves has more energy, an ultraviolet wave or an infrared wave? How can you tell this by looking at the electromagnetic spectrum?

Question 5: In terms of wavelength and frequency, What is the difference between a radio wave and an X ray?

Question 6: Based on your results, which type of electromagnetic wave do you think is more dangerous, a low-frequency wave or a high-frequency wave? Why?

What is the electromagnetic spectrum?

Frequency (hertz)	Wavelength (meters)	Type of Wave
1 x 10 ⁷	80 30 30 30 30 30 30 30 30 30 30 30 30 30	
5 x 10°	6 × 10 ⁻²	人名格·格·格·格·格·格·格·格·格·格·格·格·格·格·格·格·格·格·格·
7 × 10 ¹³	4.3 x 10 ⁻⁶	
5 x 10 ¹⁴	6 × 10 ⁻⁷	-commissional design of the control
6 x 10 ¹⁵	5 x 10 ⁻⁸	
3×10^{18} 4×10^{19}	1 × 10 ⁻¹⁰	
	7.5 x 10 ⁻¹²	acommission-shrift- cra despite of the designation

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