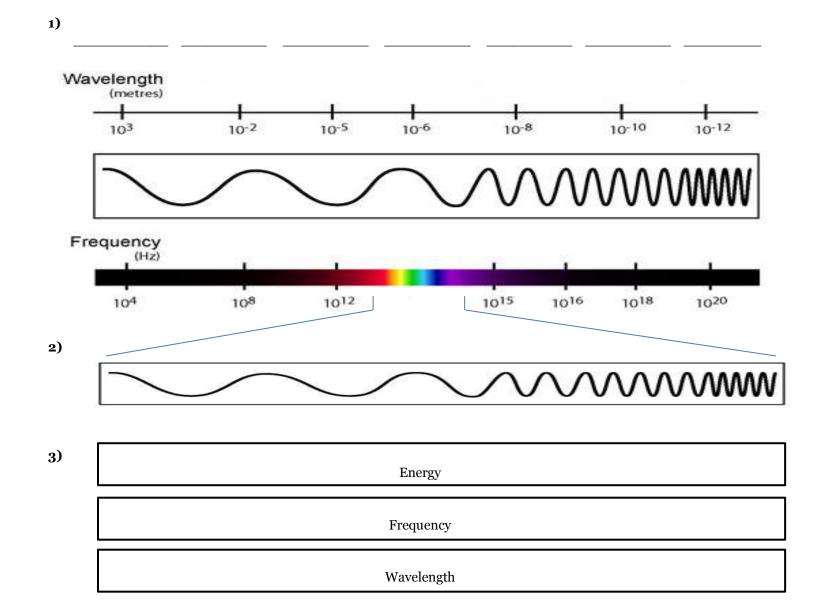
Electromagnetic Spectrum (EM SPECTRUM)

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Name:
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Materials: Colored Pencils and Textbook

- # 1: Use the diagram in your textbook (Chapter 25) to label the diagram with the appropriate EM waves.
- # 2: Use colored pencils to color the Visible Light Spectrum with (ROYGBIV).
- # 3: Label the Low and High Energy, the Low and High Frequency and the Long and Short Wavelengths.
- # 4: Identify the relationships between the frequency, energy and wavelength.
- # 5: Research to find some examples/uses of each type of electromagnetic wave. List these on the back of this sheet.

The ELECTROMAGNETIC SPECTRUM



4) As the frequency of a wave increases, the energy: The relationship between frequency and energy is: As the λ of a wave increases, the energy: The relationship between λ and energy is: As the frequency of a wave increases, the λ: The relationship between frequency and λ is:

Increases Direct	Decreases Indirect	Stays the same	(circle one) (circle one)
Increases	Decreases	Stays the same	(circle one)
Direct	Indirect		(circle one)
Increases	Decreases	Stays the same	(circle one)
Direct	Indirect		(circle one)

Type of Electromagnetic Wave	Example/Uses of this type of wave.