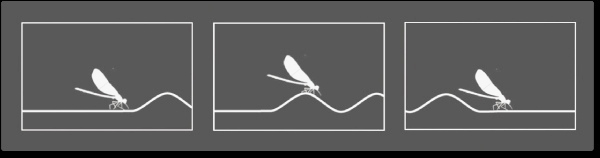
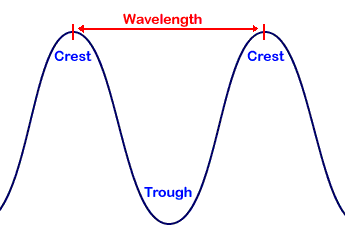
**What is Light?**

**Electromagnetic waves**

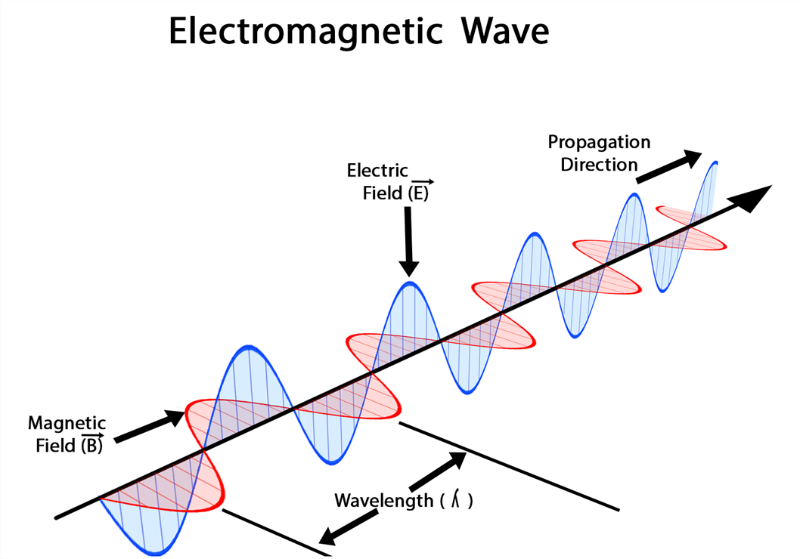




* The bug moves **up**and**down** while the wave goes from **left** to **right**
* Similarly, a **charged particle** moves up and down while the **electromagnetic wave** goes from left to right

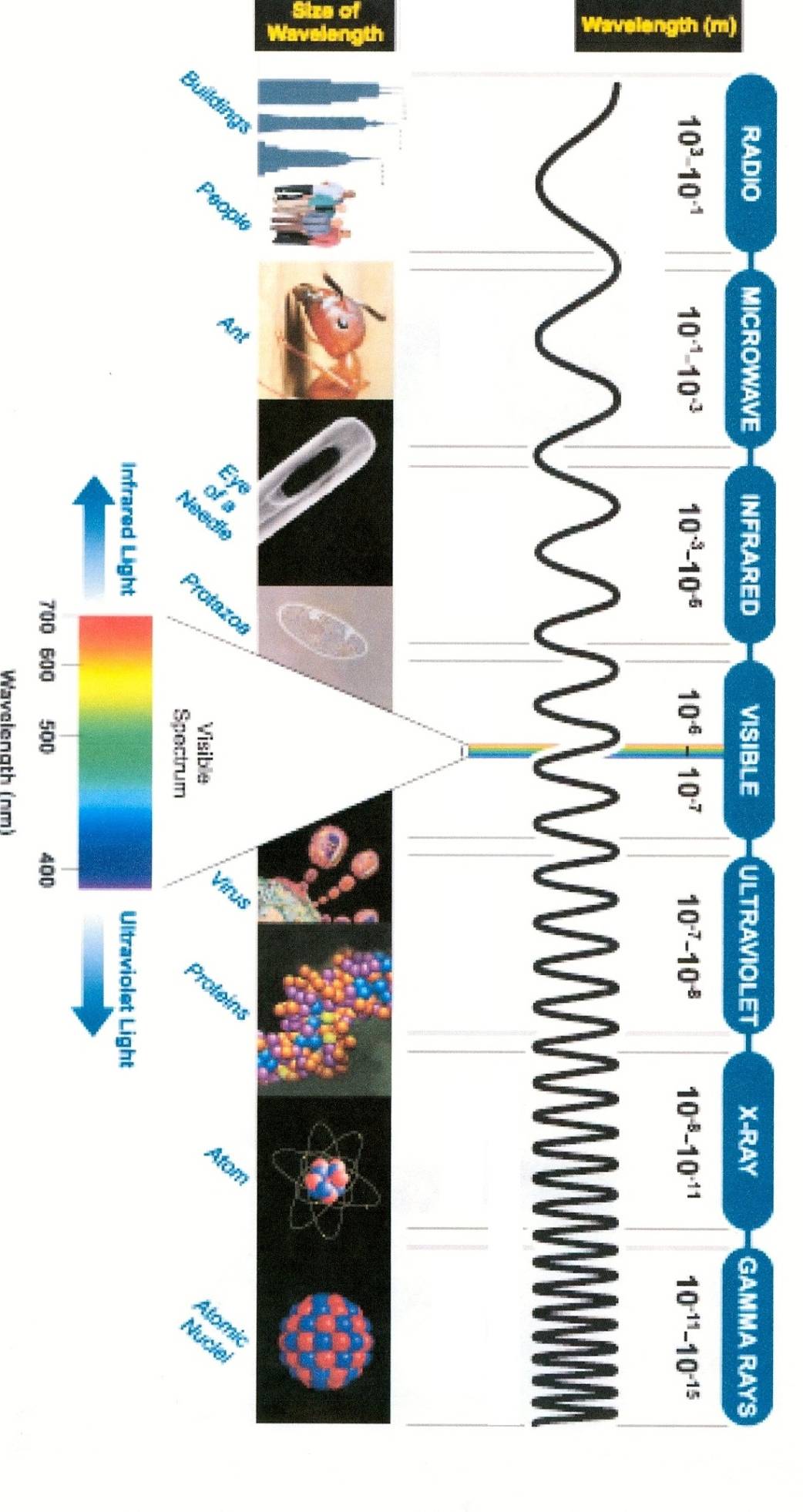
**Wavelength**



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**Electromagnetic spectrum**





* **Red** light has the **longest** wavelength of visible light (7.0 x 10-7 m or 700 nanometers)
* **Blue** light has the **shortest** wavelength of visible light (4.0 x 10-7 m or 400 nanometers)

Using the electromagnetic spectrum, order the following waves from shortest (1) to longest (5) wavelength:

5 Radio waves

1 X-rays

3 Visible

4 Infrared

2 Ultraviolet

VIDEO: <https://www.youtube.com/watch?v=cfXzwh3KadE>