

Light from the Sun



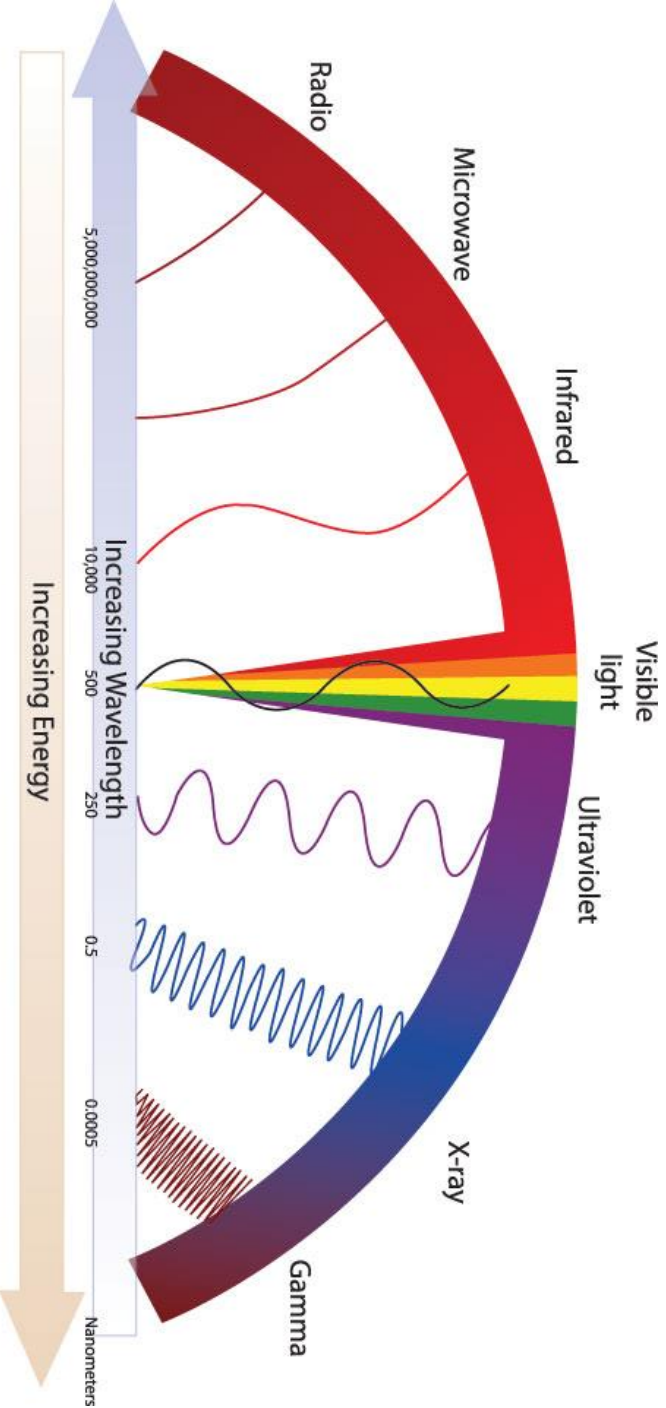
Light from the Sun

- Light from the sun travels in waves of radiation.



Light from the Sun

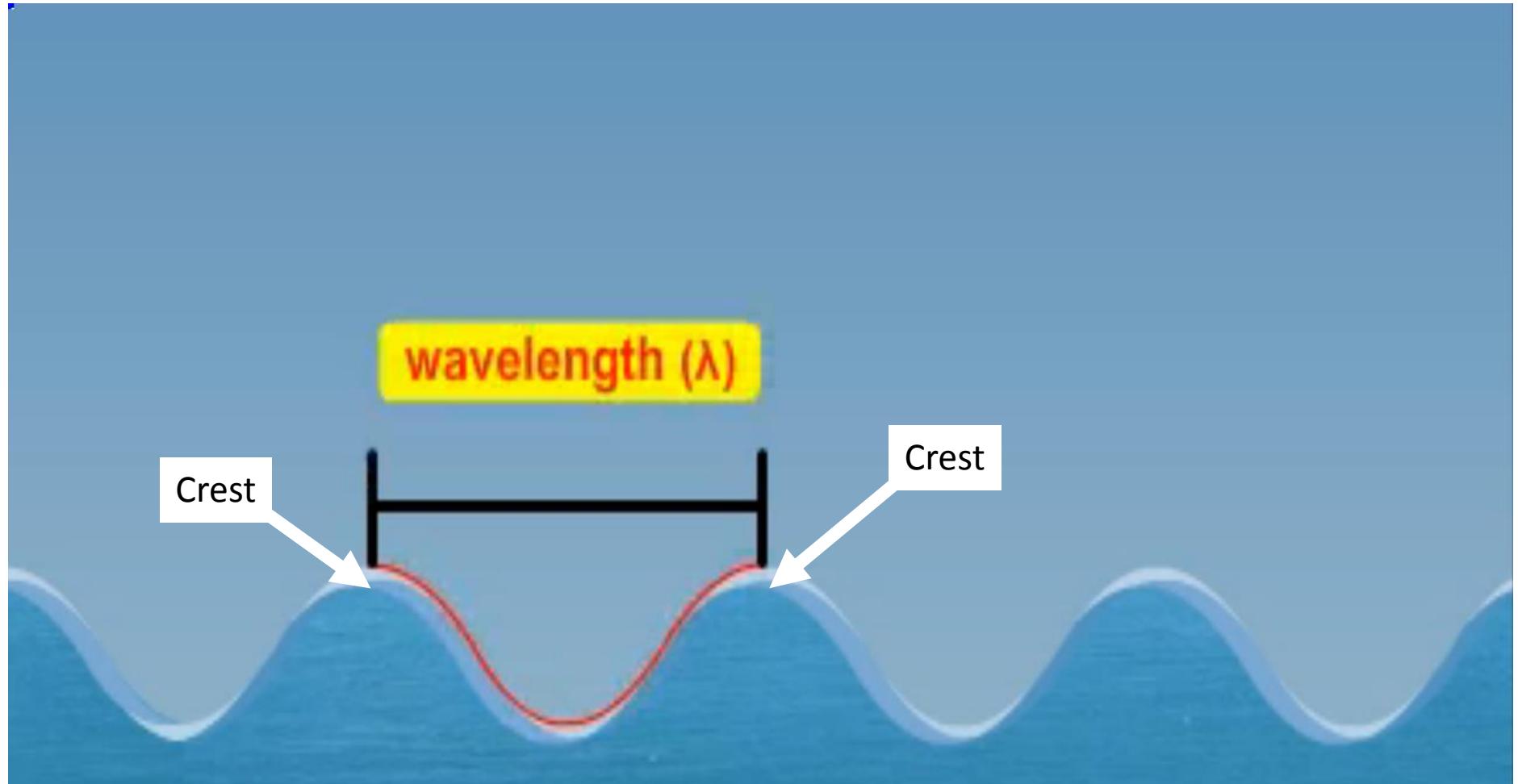
- We call these radiation waves **Electromagnetic Waves**



Types of Electromagnetic Waves

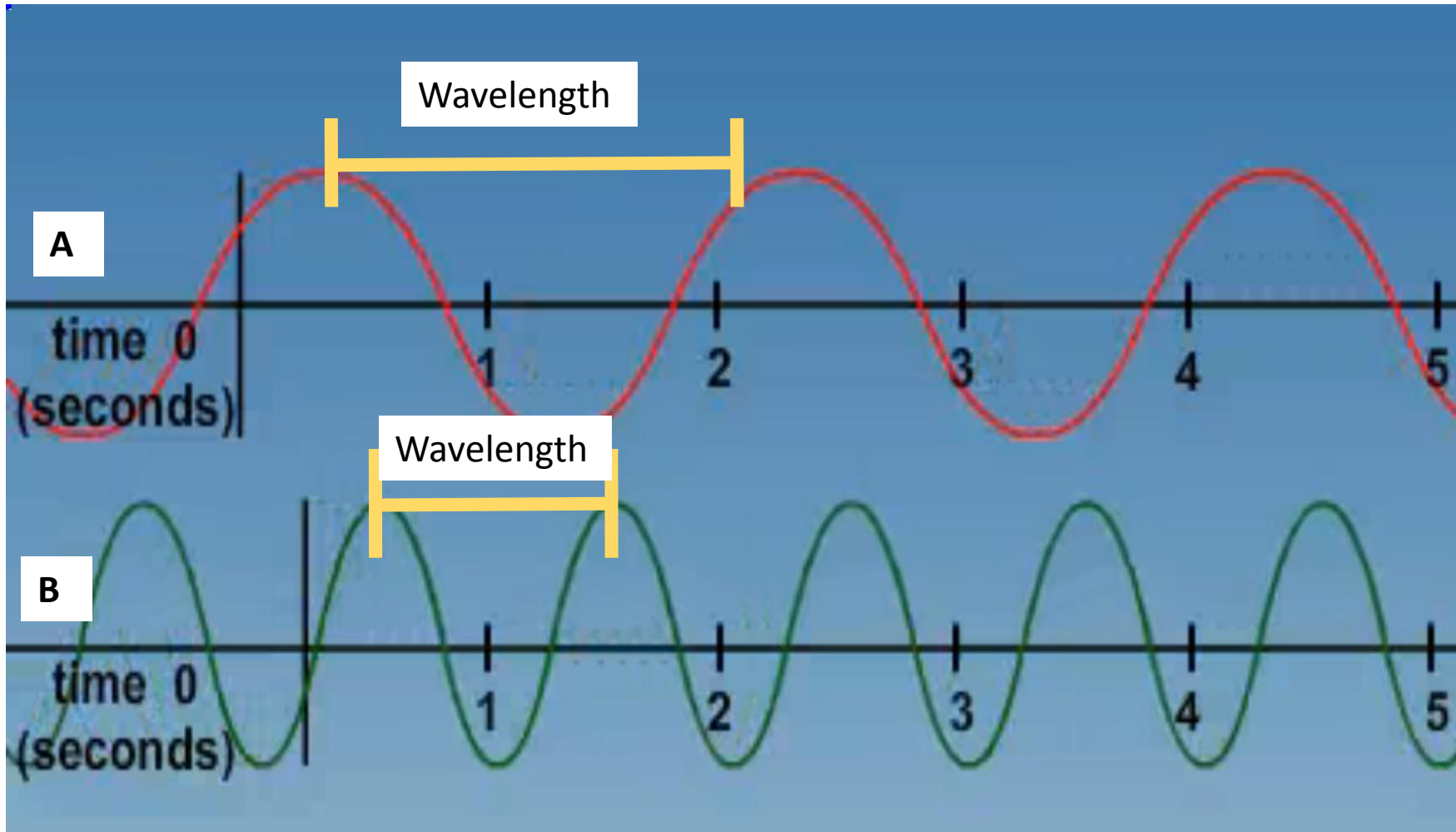
- **Gamma Rays**
- **X-Ray**
- **Ultraviolet**
- **Visible Light (the rainbow)**
- **Infrared Light**
- **Microwave**
- **Radio Wave**

All electromagnetic waves, have a different length.
Wavelength- Distance measured from crest to crest



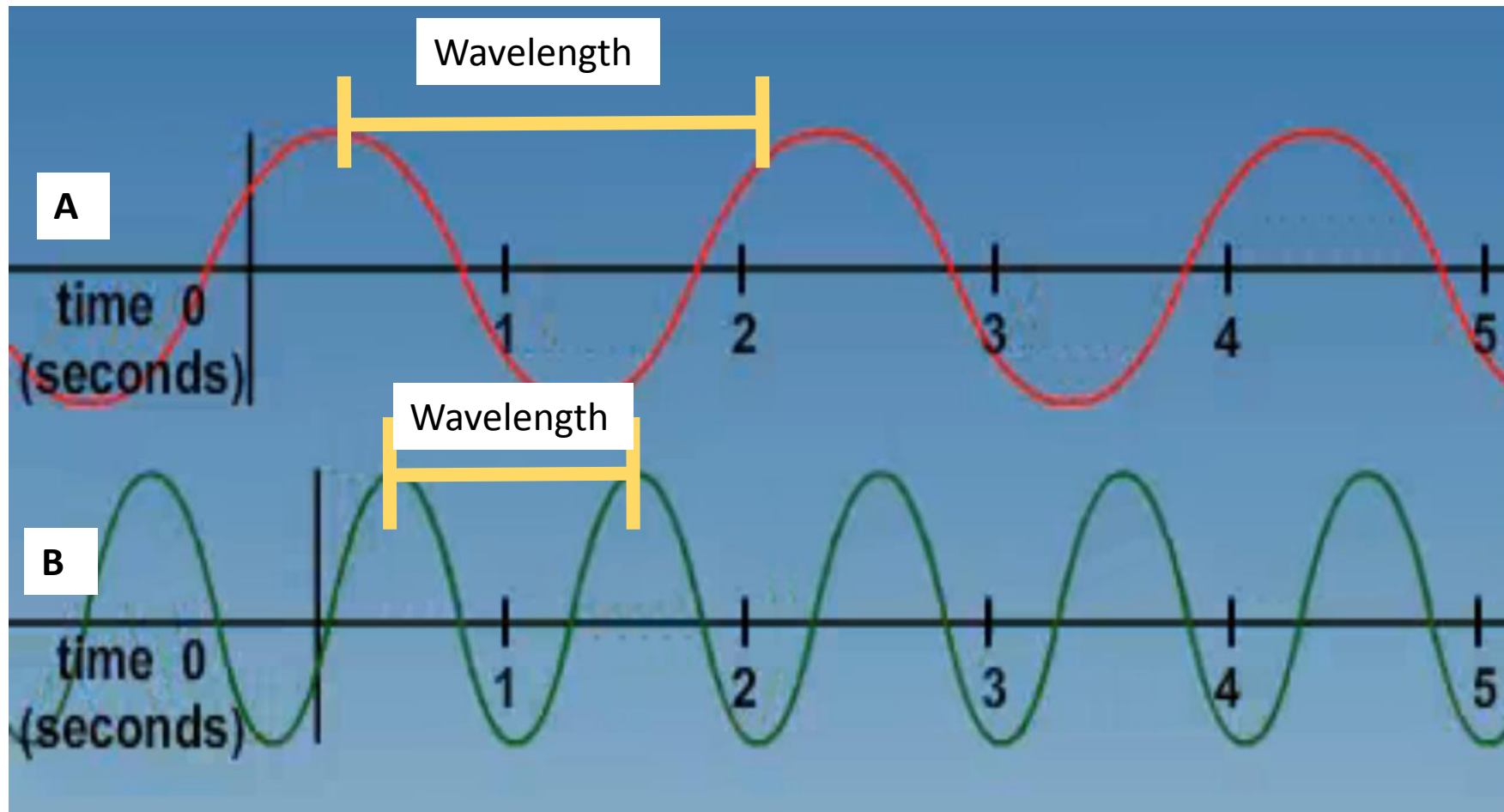
Wavelength-

- Q: Which wave has a longer wavelength? A or B?



Frequency- All of the different electromagnetic waves have different frequencies.

- Frequency is how many time a wavelength passes a stationary point.
- Frequency is described as high or low.

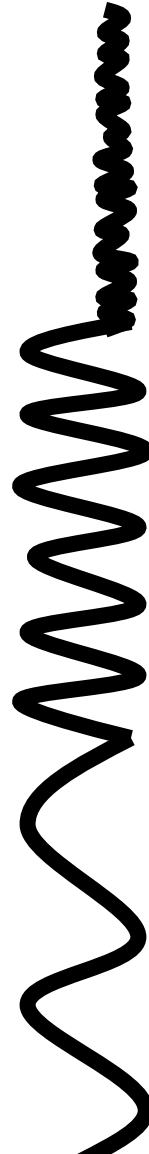


**Q: Which wave has a higher frequency ?
A or B?**

Electromagnetic Spectrum

•The waves of electromagnetic radiation are arranged according to the length of their wave and frequency

- 1. Gamma Rays**
- 2. X-Rays**
- 3. Ultraviolet Rays**
- 4. Visible light**
- 5. Infrared Rays**
- 6. Radio Waves**



We can only see one type of electromagnetic radiation. **Which one is it?**

