

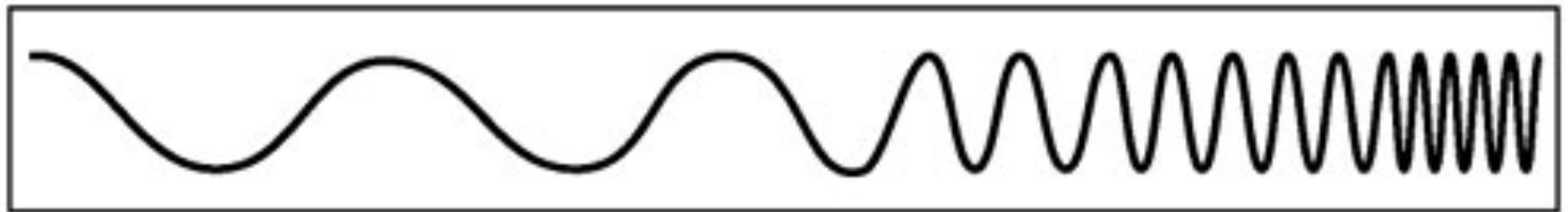
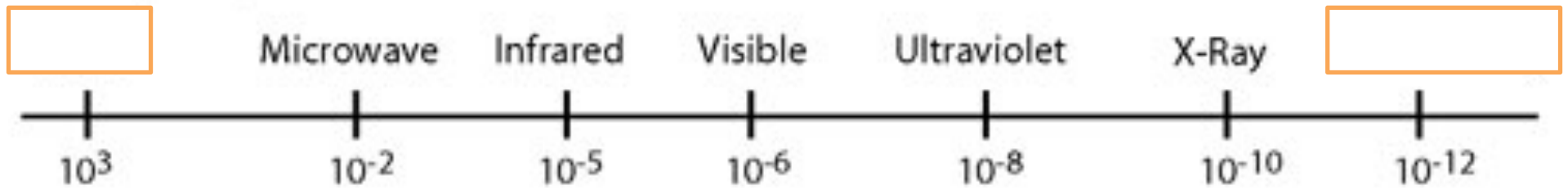
# Electromagnetic Wave Review

## Rules:

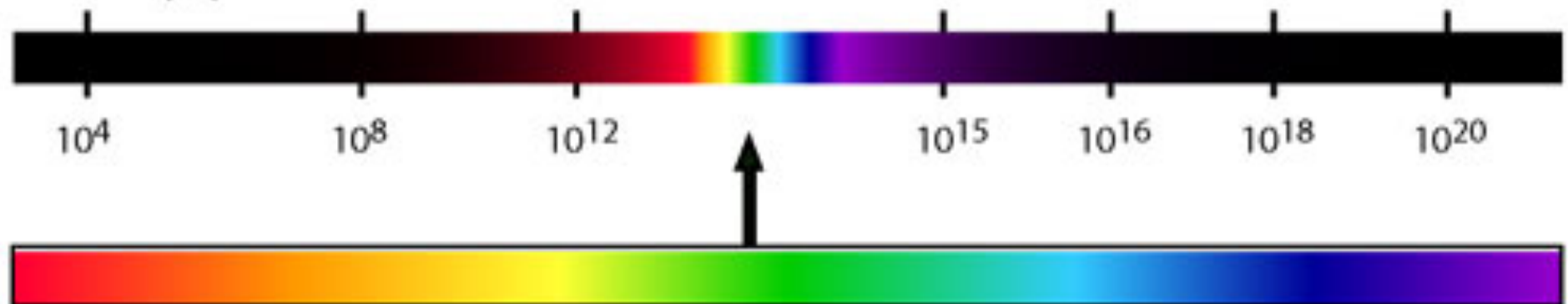
- Tables are teams. Table numbers will be drawn randomly.
- Your group can discuss the answer, you must tell WHY.
- If you answer correctly, you may draw points from the bag.
- **POOF = points gone**    **STAR = points doubled**

# THE ELECTRO MAGNETIC SPECTRUM

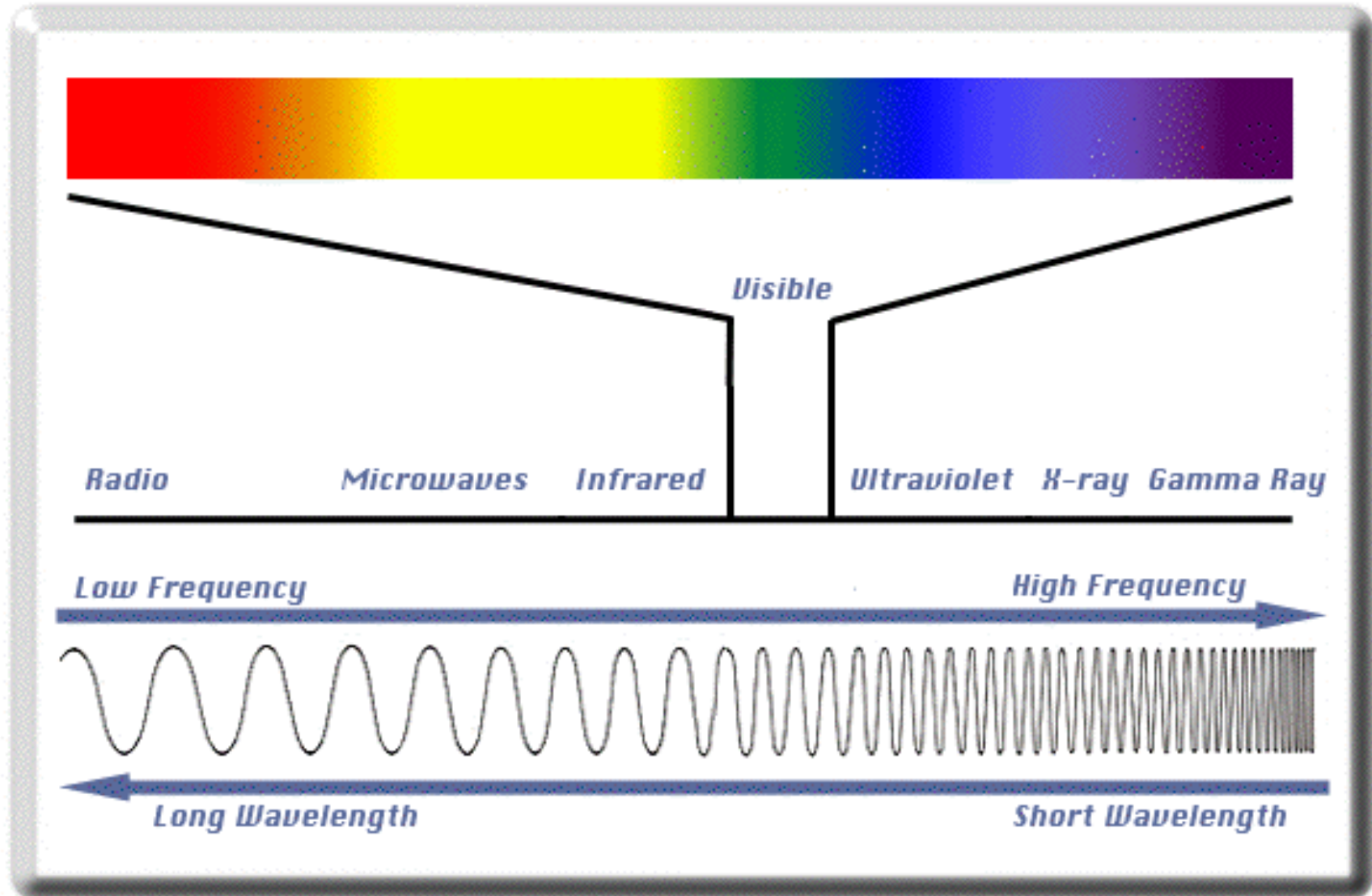
Wavelength  
(metres)



Frequency  
(Hz)



Which wave has the lowest energy? WHY?



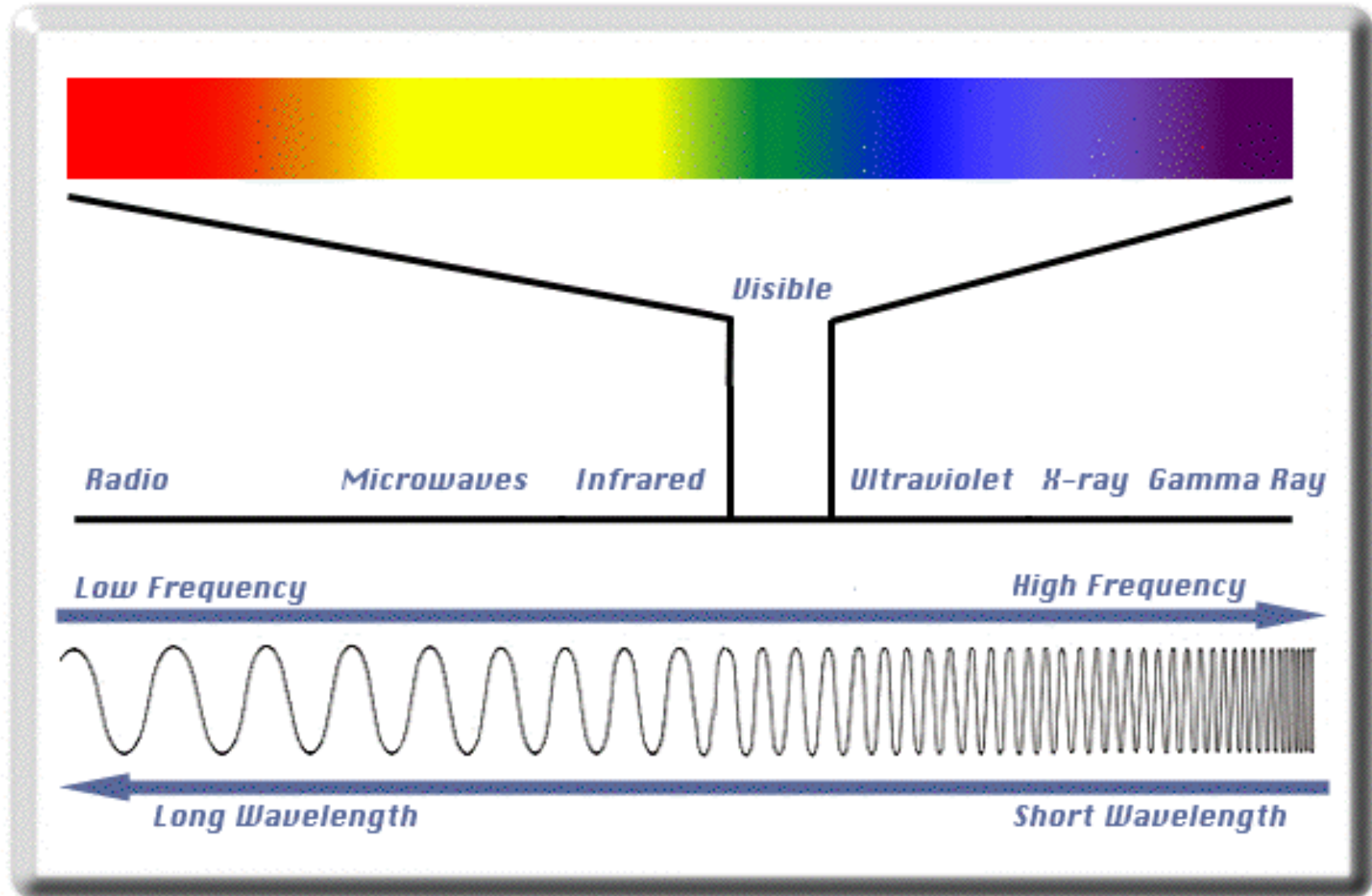
What is the only electromagnetic wave that humans can see?



What type of electromagnetic wave is used to change the channel on your TV?



Which wave has the highest energy? WHY?



Some types of matter will  

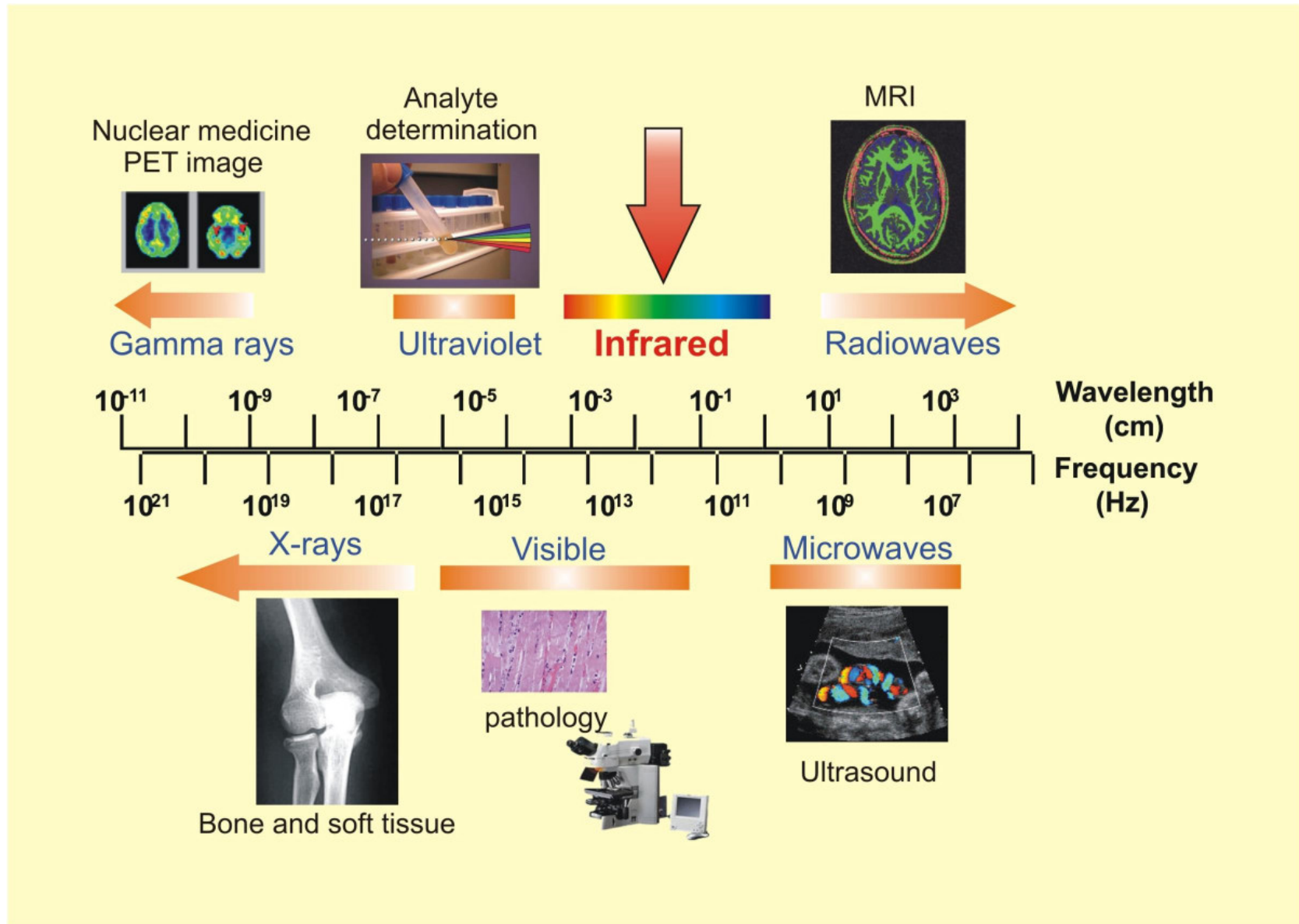
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electromagnetic waves.

*For example, when you place your hands near a fire, your hands take in infrared waves which make the molecules in your hands vibrate faster, warming up.*





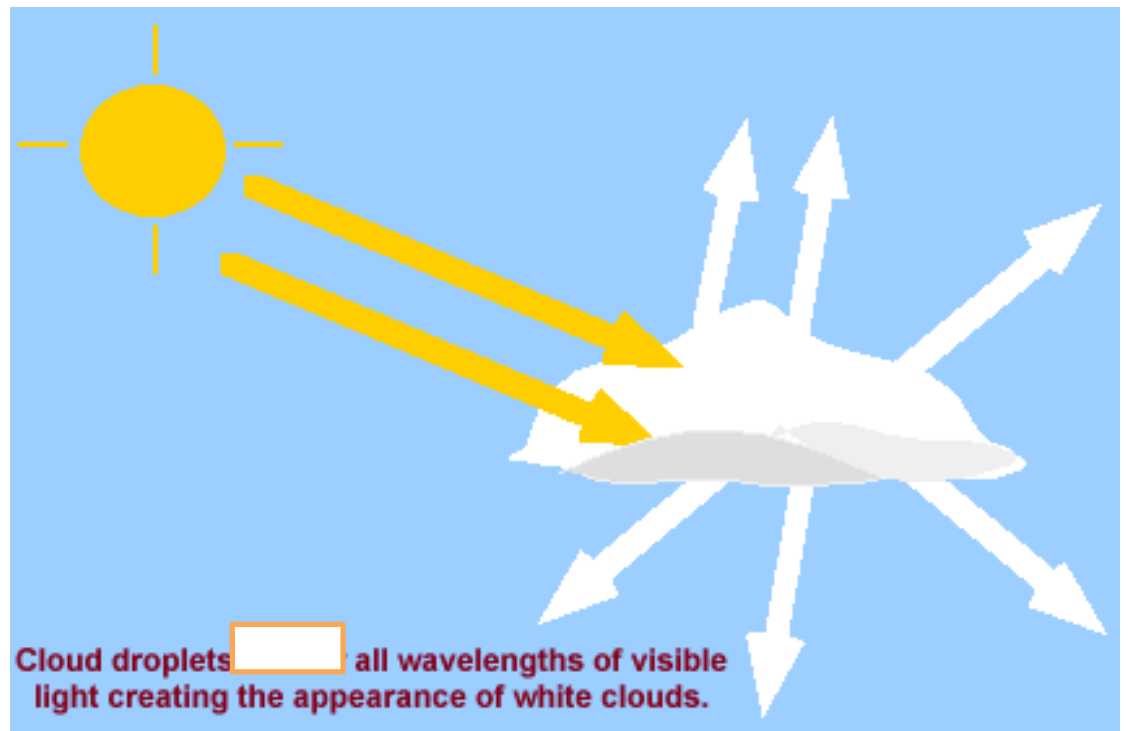


Are these electromagnetic or mechanical waves? WHY?



Some types of matter will \_\_\_\_\_  
electromagnetic waves.

*For example, we see the sky as blue because the Oxygen and Nitrogen atoms in the sky are dispersing waves with a shorter wavelength at much higher rates than waves with longer wavelengths.*



Some types of electromagnetic waves will change the \_\_\_\_\_ of an object.

