

1. No matter what type of wave, ALL WAVES transfer _____, they DO NOT transfer _____.

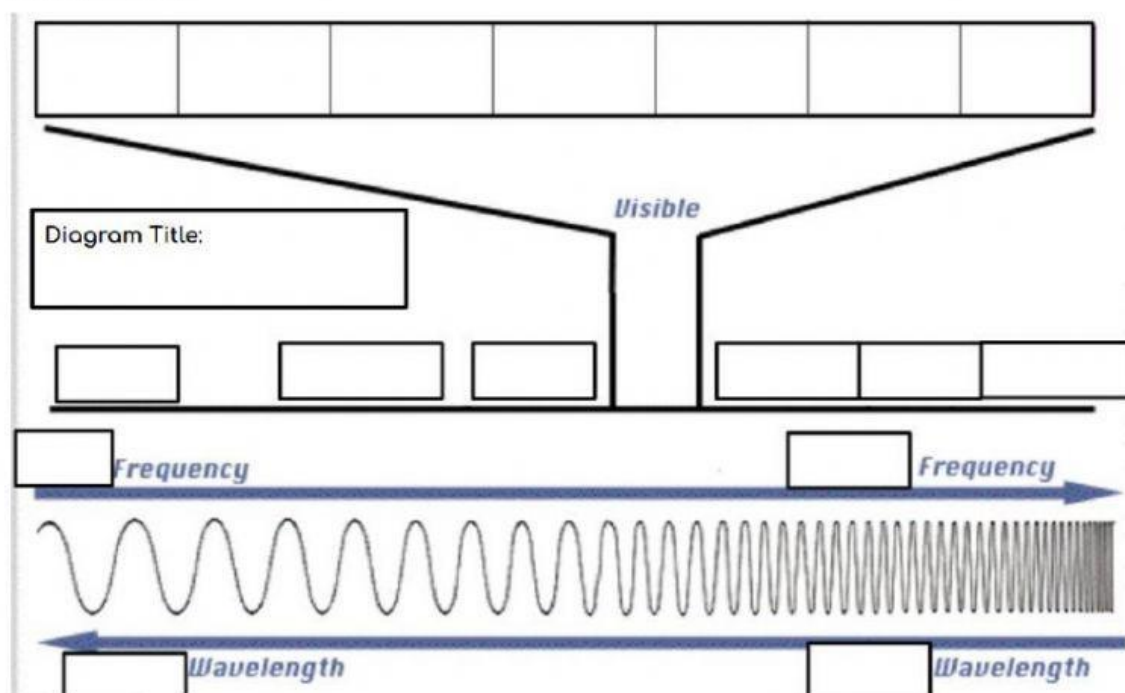
2. What is the difference between a mechanical wave and electromagnetic wave ?

3. Drag and Drop

Mechanical Wave	Both	EM Wave

Carries energy	Longitudinal waves	Transverse waves	Can travel in vacuum
Has a frequency	Fastest in solids	Slowest in gases	Fastest in gases
Slowest in solid	Sound waves	Require a medium	Do not require a medium

4. Drag and Drop



Radio Wave	Infrared Wave	long	short	UV Wave	X-Ray	Gamma Ray	low
blue	yellow	red	indigo	violet	Micro Wave	high	
orange	The Electromagnetic Spectrum		green				

- The shorter the wavelength the _____ the frequency and the _____ the energy.
- Which wave carries the most energy and has the highest frequency ?
- What waves can penetrate through your body and cause damage ?
- What properties of these waves lets you know they are harmful to you ?
- What properties of radio, microwave, infrared and visible light let you know that they are not harmful ?
- What is the relationship between wavelength, frequency and energy ?

