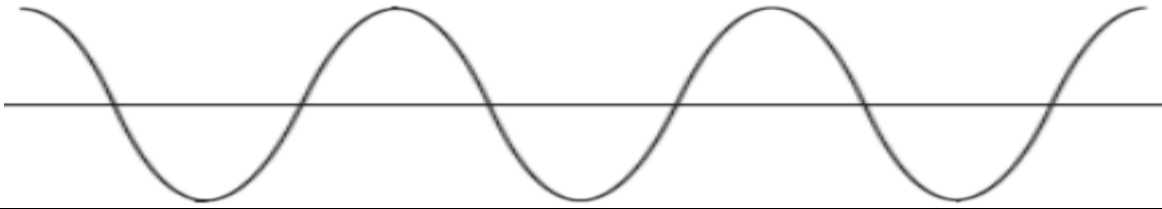


**WAVE DIAGRAM PAGE**

**I**



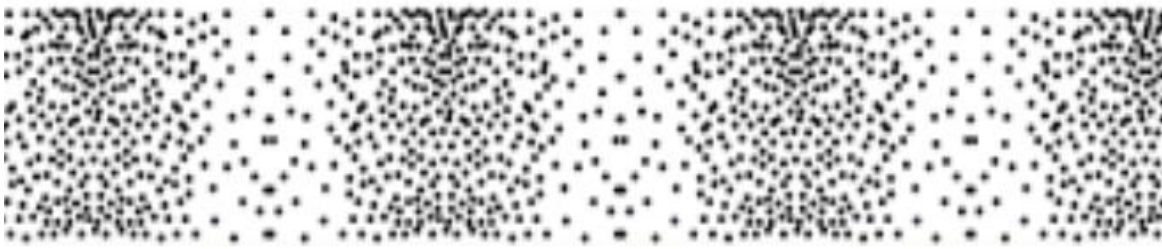
**II**



**III**



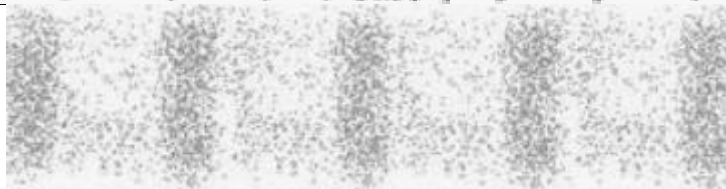
**IV**



**V**



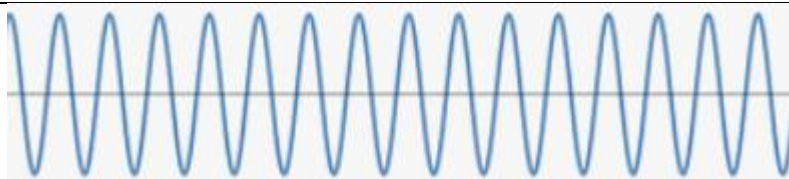
**VI**



**VII**



**VIII**



## Properties of Waves [Learning Target 1 & 2]

Answer the Following Items/Prompts about the waves numbered I – VIII on the wave diagram page.

1. List the waves that are Transverse Waves
2. List the waves that are Longitudinal Waves
3. List the waves that are Sound Waves
4. List the waves that are Light Waves
5. Measure the wavelength of each wave in METERS.

I

V

II

VI

III

VII

IV

VIII

**6. Which Sound wave has the highest Frequency?**

- a. Which sound wave has the Lowest (Hz)

**7. Which Longitudinal wave has the Largest Wavelength?**

- a. Which longitudinal wave has the shortest ( $\lambda$ )

**8. Which Mechanical wave has the most energy?**

- a. Which mechanical wave has the least Energy?

**9. Which Light wave has the highest Frequency?**

- a. Which Light wave has the Lowest (Hz)

**10. Which Transverse wave has the Largest Wavelength?**

- a. Which Transverse wave has the shortest ( $\lambda$ )

**11. Which Electromagnetic wave has the most energy?**

- a. Which electromagnetic wave has the least Energy?

**12. Identify the relationship between Frequency (Hz) and Wavelength ( $\lambda$ ). Are the Inversely or Directly related?**

13. Identify the relationship between Frequency (Hz) and Energy (Joules). Are the Inversely or Directly related?

**14. Identify the relationship between Wavelength ( $\lambda$ ) and Energy (Joules). Are the Inversely or Directly related?**