

Use the following link to answer the questions below: <https://app.wizer.me/learn/QO3QY7>

2 Types of Waves (use the infographic)

1. What are the two types of waves? _____
2. What does a mechanical wave require? _____
3. What are the two types of mechanical waves?

Basic Parts (use the two diagrams)

4. Draw and label the transverse wave. (Include: amplitude, crest, trough, and rest position)

5. Draw and label the longitudinal wave. (include: wavelength, compression, and rarefaction)

Wave Length (use the Bozeman science video)

6. Wave length is the _____ between waves.
7. In a transverse wave the oscillations are _____ to the movement of the wave.
8. What symbol is used to represent wavelength? _____
9. Give an example of one wavelength in a longitudinal wave.

10. When Mr. Bozeman asks the listener to **pause** the video and measure the wavelength. What was the wavelength of the example wave on the screen in cm and m? _____ cm _____ m

Wave Frequency (use the second video)

11. What are three example of transverse waves given in the video?

12. Sound waves are a type of _____ wave.
13. Why does the duck not move with the wave?

14. The frequency is the number of _____ to pass a point every _____.

15. What is the unit of measure for wave frequency? _____

Apply what you know

16. What type of wave shown? _____
17. What is the Amplitude? _____ Wavelength? _____ Speed? _____