

1. List the objectives of this section

2. What does a sine wave look like?

3. Draw and label Figure 11-9

4. Define the following
 - a. Crest

 - b. Trough

 - c. Amplitude

 - d. Compressions

 - e. rarefactions

5. How do you turn a longitudinal wave into a sine curve?

6. What three ways can you measure wavelength?

7. What is the symbol for wavelength?
8. What is the period of a wave?

9. What is the symbol for period?
10. What unit is period measured in?
11. What is frequency?

12. What is the symbol for frequency?
13. What is the unit for frequency?
14. How are frequency and period related?

15. What is the electromagnetic spectrum?
16. What is the speed of a wave?
17. How do you calculate the speed of a wave?
18. What is the speed of sound in air?
19. How does sound travel different in liquids and solids?
20. What determines the speed of a wave?
21. Why do waves travel slowly in air?
22. Why do waves travel faster in liquids and solids?
23. How fast does light travel?
24. How does sound change as an ambulance passes?
25. What determines pitch?
26. What happens to the sound waves as the source moves toward you?
27. What happens to the sound waves as the source moves away from you?