Bill Nye Wave Video Quiz Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. This video is brought to you by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. Energy, light, and sound all travel as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. Bill playing the guitar is an example of what type of energy?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. The distance from wave to wave is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. How often waves repeat is called their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Draw a high frequency wave.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Draw a low frequency wave.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Energy travels in what direction?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Draw how the amplitude is measured. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. All waves have a similar\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

11. What spectrum is made up of different waves?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. What do radio waves bounce off of before returning to the earth?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. X-ray waves are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than light waves so they have higher \_\_\_\_\_\_\_\_\_\_\_\_.

14. Waves are hand crafted by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the ocean.

15. Earthquake energy travels as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. Earthquake waves are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves.

17. Amplitude is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of the wave.

18. Musical instruments make sound \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

19. Low note = long pipe = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves.

20. Sonar uses \_\_\_\_\_\_\_\_\_\_\_\_ waves to tell how \_\_\_\_\_\_\_\_\_\_\_\_things are in the water.

21. Amplitude describes a wave’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

22. Energy moves in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

23. Draw a wave. Label the frequency, amplitude, and wavelength.