Waves Mr. Stewart

Physical Science December, 2012

1. What is a wave? What is a medium?
2. What is a vibration?
3. How does a wave propagate?
4. What is a crest? What is a trough?
5. What is the frequency of a wave?
6. Give an example of frequency.
7. What is the amplitude of a wave?
8. What is wavelength?
9. What is the period of a wave?
10. When oscillations are small, wave motion can be described how?
11. How is the speed of a wave defined?
12. What is the formula for the speed of a wave?
13. What do waves transfer?
14. What are two types of waves?
15. What type of wave are sound waves?
16. What direction do oscillations of a longitudinal wave travel in?
17. What is a compression in a longitudinal wave?
18. What is a rarefaction in a longitudinal wave?
19. What is the frequency of sound called?
20. What can happen when two waves pass each other?
21. What is constructive interference?
22. What is destructive interference?
23. In a sound wave, what is a beat?
24. What is a standing wave?
25. What is the difference between a node and an anti-node?
26. What happens when the frequency is changed in a standing wave?
27. What is the Doppler Effect?
28. What does the Doppler shift produce?
29. What is a sonic boom?
30. What dictates the frequency of a sound wave?
31. What are areas of a medium where the density of the medium is increased called?
32. What causes a sonic boom?
33. When you move away from a sound, the frequency of the sound does what?
34. What is the difference between subsonic and supersonic sound waves?
35. What are transverse waves?
36. How do the oscillations of a transverse wave move?
37. What can electromagnetic (transverse) waves transmit through?
38. What determines the speed of a wave?
39. What are water waves a combination of?
40. Calculate the speed of the water wave.
41. What is a mechanical wave?
42. What kind of waves can travel through a solid medium?