

Name: _____

Period: _____

HW Unit 10:1—Guided Reading

Mr. Murray, IPC

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A-day: Due Tues., 3/28 (Assig: 4/13)

B-day: Due Thurs., 3/19 (Assig: 4/16)

PLEASE NOTE: This next unit is almost CERTAINLY on the TAKS test next week. SO, if you want to pass TAKS, READ the book before Thursday over Harmonic Motion and Waves (CH 11).

1. After a water waves move thru a pond, have the molecules of water moved or are they in their original position?
2. So what moves with the wave?
3. What is a wave made of?
4. What is a medium?
5. What is the medium for an earthquake?
6. What is the medium for light?

7. What kind of wave is light?
8. (From our Energy chapter) What is energy?
9. How can we prove that waves have energy?
10. As you get farther from where a wave starts, does the wave get stronger or weaker?
11. In the spring on p.359, what kinds of energy are there?

12. For the masses shown at the top of 361, what would happen to the motion if the masses were not connected?

17. What is frequency?

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18. Find the speed of a wave equation and give it:

13. Longitudinal or Transverse Wave?

- A. ____ A wave that vibrates parallel to the wave's motion.
- B. ____ Light waves.
- C. ____ Sound waves.
- D. ____ Compression waves.
- E. ____ Vibrates perpendicular to the wave's motion.

19. Using the example on p. 371: A wave has a frequency of 5 Hz and a wavelength of 20 m. Find its speed.

14. What is amplitude?

20. What changes the speed of a wave?

15. What is wavelength?

16. What is period?

21. What is the speed of light in space?

22. What is the speed of sound in air?
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