

Physics Wave Web Quest

NAME: _____

All questions should be answered in the space provided.

I. What is a wave? Website: <http://www.physicsclassroom.com/Class/waves/u10l1b.cfm>

1. What do waves transfer?
2. What is a medium?

II. Types of waves. Website: <http://www.physicsclassroom.com/Class/waves/U10L1c.cfm>

1. How can waves be classified based on direction of movement of the individual particles?
2. What is the difference between transverse and longitudinal waves?
3. Which type of wave is sound?
4. How can waves be classified on the basis of their ability, or inability, to transmit energy through a vacuum?
5. What is the difference between electromagnetic and mechanical waves?
6. Which type of wave is light?
7. Which type of wave is sound?

III. Parts of a wave:

Website: <http://zonalandeducation.com/mstm/physics/waves/partsOfAWave/waveParts.htm>

1. Terms include crest, trough, amplitude, and wavelength. Either write the definitions or draw a labeled picture.

IV. Interference of waves.

Website: <http://www.physicsclassroom.com/class/waves/Lesson-3/Interference-of-Waves>

1. Define interference, constructive interference, and destructive interference.

2. Draw two examples each of constructive interference and destructive interference. Show the waves before and after they meet.
Each example should be different (amplitude, orientation, etc.).