

Nature of Waves Study Guide--Key

Part 1: Vocabulary - define each vocabulary word on a separate sheet of paper.

- | | | |
|--|---|--|
| A. Wave a transfer of energy | I. Wavelength the distance between two similar parts of a wave | N. Longitudinal wave a wave that travels parallel to the energy |
| B. Energy the ability to do work | J. Rarefaction particles are less dense and more spread out on a compression wave | O. Transmitted light or matter be allowed to go through matter without obstruction |
| C. Electromagnetic wave a transfer of energy through the vacuum of space | K. Compression particles are more condensed on a compression wave | P. Vacuum of space no matter or are present |
| D. Mechanical wave a transfer of energy through matter | L. Echolocation using reflected sound waves for location | Q. Frequency the number of wave cycles that pass a certain point per second |
| E. Amplitude the extend a particle moves from its rest position | M. Disturbance vibrations that travel through matter | R. Hertz unit of frequency |
| F. Crest top of a transverse wave | | S. Pitch highness or lowness of sound based on frequency |
| G. Trough bottom of a transverse wave | | |
| H. Rest Position being stationary relative | | |

Part 2: Draw and label a transverse wave and a longitudinal/compression wave on a separate sheet of paper.



Part 3: Short Answer

1. What are the methods of transportation for electromagnetic waves?
Mechanical waves?
Electromagnetic waves can travel through solids, liquids, and gases, but none

Study Guide Waves Properties Answers

F Rizvi



Study Guide Waves Properties Answers:

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