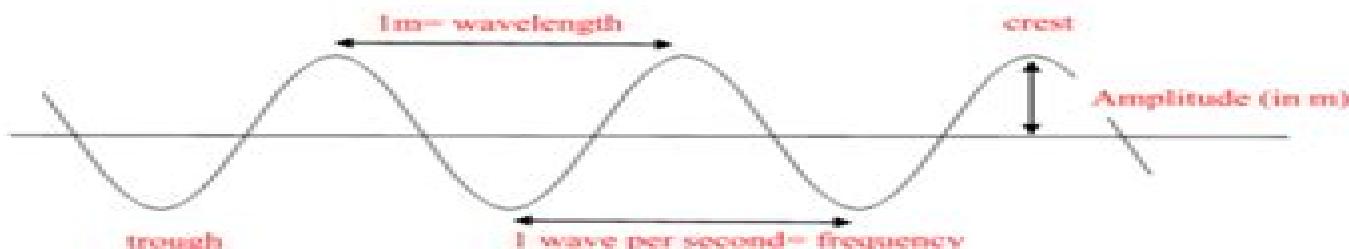


Waves Study Guide

1. Label the following on the wave below and describe each:

- a. Wavelength- distance from crest to crest or trough to trough for a transverse wave (compression to compression, etc for a longitudinal)
- b. Frequency- How many times a wave passes a point in a given amt of time (ex-wavelengths per second)
- c. Amplitude- the distance from the midpoint of a wave to the crest (or midpoint to trough= same distance)
- d. Crest - the high point of a transverse wave
- e. Trough- the low point of a transverse wave



2. What property of a sound is controlled by :

- a. amplitude? volume
- b. frequency? pitch

3. List the differences between electromagnetic waves and mechanical waves. (or create a Venn diagram)

ELECTROMAGNETIC	MECHANICAL	BOTH
Don't require a medium	Require a medium	Have energy, frequency, wavelength, amplitude, etc
Fastest in a vacuum (slowest in solid)	Fastest in a solid (slowest in gas, can't move in a vacuum)	
Transverse	Transverse, longitudinal or surface	

Study Guide Wave Properties

Raymond A. Serway, John R. Gordon

Study Guide Wave Properties:

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