

Day 5: Physical Science EOCT Study Guide Answers

SPS9. Students will investigate the properties of waves.

a. Recognize that all waves transfer energy.

Waves are phenomena that occur, seen and unseen, all around us. _____ by definition are disturbances that repeat the same cycle of motion and transfer energy through matter or empty space.

Example: OCEAN WAVES, MICROWAVES, GAMMA WAVES, RADIO WAVES

b. Relate frequency and wavelength to the energy of different types of electromagnetic waves and mechanical waves.

Electromagnetic Waves	Mechanical Waves
Examples:	Examples:
Does not require a medium	Requires a medium.



c. Compare and contrast the characteristics of electromagnetic and mechanical (sound) waves.

Define wavelength.

Define Amplitude.

Define frequency.

Define Crest

Define Trough

Draw a transverse wave.

Draw a longitudinal wave

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