



Name _____

Date _____

(Key # 1 - 765043)

SCI180U13 Wave Energy

Complete the crossword puzzle.

The crossword puzzle grid contains the following words:

- 1: Down: **WAVE**
- 2: Down: **ENERGY**
- 3: Across: **UNIFORM**
- 4: Across: **AMPLITUDE**
- 5: Down: **PERIOD**
- 6: Down: **WAVELENGTH**
- 7: Down: **TRANSVERSE**
- 8: Down: **LONGITUDINAL**
- 9: Across: **ELECTROMAGNETIC**
- 10: Down: **MEDIUM**
- 11: Down: **OSCILLATION**
- 12: Down: **ORBIT**
- 13: Across: **DIFFRACTION**
- 14: Across: **INTERFERENCE**
- 15: Across: **REFRACTION**
- 16: Across: **REFLECTION**

LONGITUDINAL
TRANSVERSE
CREST
OSCILLATION
WAVE
TROUGH
FREQUENCY
SOUNDWAVES

PERIOD
ELECTROMAGNETICWAVES
LIGHTWAVES
COMPRESSION
RAREFACTION
WAVELENGTH
RADIOWAVES
AMPLITUDE

Across

- 1 a wave where matter vibrates at right angles to the direction in which the wave travels
- 3 Means lengthwise. A wave produced by back and forth motion.
- 4 movement of sound through the air or other materials in a wave form created by the vibration of some object and detected by causing a sensor to vibrate (2 words)
- 9 combinations of electricity and magnetism that can travel through space. (2 words)
- 13 The distance between one crest or peak of a sound wave and the next crest or peak.
- 14 The low point of a sound wave (the rarefractions), where the lowest air pressure occurs.
- 15 A decrease in the density of something.

- 16 Amplitude is the distance from the midpoint to the point of maximum displacement (crest or compression).

Down

- 2 The longest wavelength, lowest frequency waves on the electromagnetic spectrum. (2 words)
- 5 The peak of a sound wave where the greatest air pressure occurs.
- 6 these waves have both electric and magnetic fields (2 words)
- 7 number of waves that pass a given point in one second; measured in waves per second, or hertz (Hz).
- 8 a traveling disturbance that moves energy from one location to another without transferring matter
- 10 up and down, back and forth motion

- 11 The area where particles or air are pushed closer together as a result of being near something that is vibrating.
- 12 time for one wave to pass by



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Complete the crossword puzzle.

Crossword puzzle grid with the following words filled in:

- 1** TRANSVERSE
- 2** A
- 3** LONGITUDINAL
- 4** SOUNDWAVES
- 5** C
- 6** L
- 7** F
- 8** W
- 9** ELECTROMAGNETIC WAVES
- 10** S
- 11** C
- 12** P
- 13** WAVELENGTH
- 14** TROUGH
- 15** REFRACTION
- 16** AMPLITUDE

Vertical words (down):

- 1** A
- 2** I
- 3** W
- 4** R
- 5** V
- 6** I
- 7** R
- 8** S
- 9** S
- 10** C
- 11** I
- 12** L
- 13** A
- 14** T
- 15** O
- 16** N
- 17** H
- 18** Q
- 19** U
- 20** M
- 21** P
- 22** E
- 23** S
- 24** S
- 25** O
- 26** V
- 27** E
- 28** W
- 29** A
- 30** V
- 31** E
- 32** S