

Wave Terminology Quiz

Name:

TOTAL: /15

Use the words below to complete each definition.

medium, displacement, amplitude, period, compression, rarefaction, crest, trough, transverse waves, longitudinal waves, frequency, wavelength, velocity

- (a) A is the substance through which a wave propagates.
- (b) is the distance a particle moves from its rest position.
- (c) The greatest displacement of a particle in a wave is its
- (d) The is the time it takes one wavelength to pass a fixed point.
- (e) The of a wave is number of waves passing a fixed point per second. It is usually measured in Hertz (Hz).
- (f) The of a wave is the shortest distance between two corresponding points on a wave (i.e.: the distance between adjacent crests, adjacent troughs, adjacent compressions or adjacent rarefactions). It has the symbol lambda (λ).
- (g) The of a wave is the speed that a waves transfers energy in a particular direction. Velocity or speed is the product of frequency and wavelength ($v = f\lambda$).
- (h) The particles in waves oscillate (vibrate) perpendicular to the direction of propagation.
- (i) The particles in waves oscillate (vibrate) parallel to the direction of propagation. (eg. the sound waves)
- (j) Water ripples and light are examples of waves.
- (k) Sound is an examples of a wave.
- (l) The highest point on a transverse wave is called a
- (m) The lowest point on a transverse wave is called a
- (n) The region where particles in a longitudinal wave are closest together is a
- (o) The region where particles in a longitudinal wave are furthest apart is a