

Characteristics of Waves

Below are some key points about waves that you need to know. Remember, a wave is a disturbance that transfers energy.

Look over and study these key concepts and then click done.

Waves have 4 characteristics:

- Wavelength-difference between two waves right next to each other. Measure the top of one wave to the top of another or the bottom of one wave to the bottom of another
- Frequency- number of complete waves passing a specific point in a given amount of time.
- Amplitude - height of the wave above the resting space (where the wave would be if there is no energy).
- Speed - how fast the wave travels in one unit of time. If frequency is increased then speed is increased.

Characteristics of Waves

Below is a cryptogram puzzle. The puzzle is written in paragraph form with a few letters to help you. Each blank will have a number under it and each number will represent a letter. You need to use the information you know about waves to solve the puzzle.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
5				12														22			14	23			

A WAVE S A S A E A
 5 23 5 14 12 3 22 5 16 3 22 18 8 25 7 5 17 10 12 18 4 5 18
 A S E S E E . WAVES A
 18 25 5 17 22 19 12 25 22 12 17 12 25 1 13 23 5 14 12 22 24 5 13
 A AVE
 9 25 24 5 13 17 9 18 18 25 5 14 12 6 18 4 25 9 8 1 4
 A E . A E S A A E A
 5 24 12 16 3 8 24 5 24 12 16 3 8 24 3 22 5 24 5 18 12 25 3 5
 W E E A AVE
 6 23 4 3 10 4 12 17 12 25 1 13 10 5 17 18 25 5 14 12 6
 E E A E W ES WAVES
 18 4 12 25 12 5 25 12 18 23 9 18 13 21 12 22 9 19 23 5 14 12 22
 - E A A A E E A E
 24 12 10 4 5 17 3 10 5 6 5 17 16 12 6 12 10 18 25 9 24 5 1 17 12 18
 E A A WAVES EE
 3 10 24 12 10 4 5 17 3 10 5 6 23 5 14 12 22 17 12 12 16
 A E E AVE
 5 24 12 16 3 8 24 3 17 9 25 16 12 25 18 9 18 25 5 14 12 6
 EA A ES EA WAVES
 12 5 25 18 4 2 8 5 11 12 22 9 10 12 5 17 23 5 14 12 22
 A S A E A ES
 5 17 16 22 9 8 17 16 5 25 12 5 6 6 18 13 21 12 22 9 19
 E A A WAVES . E E A
 24 12 10 4 5 17 3 10 5 6 23 5 14 12 22 12 6 12 10 18 25 9 24 5 1 17
 E WAVES A E
 12 18 3 10 23 5 14 12 22 16 9 17 9 18 5 24 12 16 3 8 24
 AVE . A WAVES
 18 9 18 25 5 14 12 6 6 3 1 4 18 25 5 16 3 9 23 5 14 12 22
 A A A A S A E ES
 5 17 16 1 5 24 24 5 25 5 13 22 5 25 12 18 13 21 12 22 9 19
 E E A E WAVES
 12 6 12 10 18 25 9 24 5 1 17 12 18 3 10 23 5 14 12 22