Wave Parameters

(!) This is a preview of the published version of the quiz

Started: Jul 12 at 1:09am

Quiz Instructions

Lesson 1 for 4/20 to 4/23

Instructions:

Watch the two videos about wave properties and complete the quiz questions. You can watch the videos within Canvas without downloading the mp4 files; just click the play button.

Video Lessons:

<u>Vibrations and Waves Energy and Motion - Video Lesson Transcript Studycom.mp4</u>

<u>Wave Parameters Wavelength Amplitude Period Frequency Speed - Video Lesson Transcript Studycom.mp4</u>

1 pts

Question 2	1 pts
Which of the following are examples of vibrations occurring?	
○ Cymbal being struck.	
○ Ground shaking during an earthquake.	
A trampoline being jumped upon.	
All of these are examples of vibrations occurring.	
○ Guitar string being plucked.	
What are waves?	·
○ None of these	
A disturbance that travels though a medium from one place to another.	
o any interaction that, when unopposed, will change the motion of an object	
a vehicle's capacity to gain speed within a short time.	
Total length traveled without regard to direction. It is a scalar.	

☐ Periodic	
☐ A Wave.	
☐ A saw tooth pattern.	
☐ Completely Random	
Question 5	1 pts
Waves are caused by some type of vibration.	
○ True	
○ False	
Question 6	1 pts
Question 6 Low points on the graph of wave displacement as a function of time are called	
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Low points on the graph of wave displacement as a function of time are called O peaks	
Low points on the graph of wave displacement as a function of time are called o peaks None of these	
Low points on the graph of wave displacement as a function of time are called peaks None of these troughs	
Low points on the graph of wave displacement as a function of time are called peaks None of these troughs crests	

Question 7	1 pts
High points on the graph of wave displacement as a function of time are called	
○ Period	
○ Troughs	
○ Crests	
○ Frequency	
○ Wave Cycle	
○ None of these	
Question 8	1 pts
What is a wave cycle?	
○ The velocity of an object at a particular moment in time.	
Displacement divided by time.	
Total distance divided by total time.	
○ The portion of the wave between two successive crests, or between two troughs.	
○ None of these.	
The number of wave cycles that occur per unit time.	
Question 9	1 pts
What is amplitude?	

The capacity to gain speed within a short time.	
The number of wave cycles that occur per unit time.	
○ The capacity to do work.	
E. Total length traveled without regard to direction.	
○ None of these.	
The distance between the midline of a wave and its crest or trough.	
Question 10	1 pts
Amplitude indicates how much a wave is carrying.	
○ Heat.	
○ Speed.	
O None of these.	
○ Force.	
○ Energy	
Question 11	1 pts
Waves transfer matter from one place to another.	
○ True	
○ False	

Question 12 1 pts

○ True	
○ False	
Question 13	1 pts
What are wave parameters?	
A basic unit of matter that consists of a dense central nucleus sunegatively charged electrons.	urrounded by a cloud of
○ None of these.	
The theoretical lowest possible temperature	
○ The ways in which we measures waves.	
○ The sum total of protons (or electrons) and neutrons within an at	tom.
○ Is the time rate of change of angular velocity	
Question 14	1 pts
What is the period of a wave?	
○ The time is takes a wave to complete one wave cycle.	
The distance between the midline of a wave and its crest or trou	gh.
The number of wave cycles that occur per unit time.	

Question 15	1 pts
What is wave speed?	
The number of wave cycles that occur per unit time.	
○ None of these.	
The distance between the midline of a wave and its crest or trough.	
The distance the wave travels in a certain amount of time.	
The time is takes a wave to complete one wave cycle.	
Question 16	1 pts
What is the frequency of a wave?	
The distance between the midline of a wave and its crest or trough.	
The time is takes a wave to complete one wave cycle.	
○ None of these.	
The distance the wave travels in a certain amount of time.	
The number of wave cycles that occur per unit time.	
Question 17	1 pts
What the is symbol for period?	
○ v	
○ c	

○ None of these	
○ T	
○ Lambda	
○ f	
○ A	
Question 18	1 pts
What is the symbol for frequency?	
○ A	
○ T	
○ c	
○ f	
○ Lambda	
○ v	
Question 19	1 nts
Question 19	1 pts
	1 pts
Question 19 What is the unit Hertz (aka Hz)? Cycles per hour	1 pts
What is the unit Hertz (aka Hz)?	1 pts
What is the unit Hertz (aka Hz)? ○ Cycles per hour	1 pts

 \bigcirc Seconds per cycle

Question 20	1 pts
Frequency is the reciprocal of the period.	
○ True	
○ False	
Question 21	1 pts
Increasing the period of a wave will also increase the frequency.	
○ True	
○ False	
Overtion 22	A nto
Question 22	1 pts
The period and frequency are inversely proportional to one another.	
○ True	
○ False	
Question 23	1 pts

○ A	
○ f	
○ T	
○ c	
○ Lambda	
○ v	
Question 24	1 pts
The larger the amplitude of a wave the faster it travels.	
○ True	
○ False	
Question 25	1 pts
What is wavelength?	
The number of wave cycles that occur per unit time.	
O Distance per cycle.	
○ The distance the wave travels in a certain amount of time.	
○ The time is takes a wave to complete one wave cycle.	
○ None of these.	
○ The distance between the midline of a wave and its crest or trough.	

Question 26	1 pts
What is the symbol for wavelength?	
\bigcirc T	
○ v	
○ Lambda	
○ c	
○ f	
Question 27	1 pts
What is the symbol for wave velocity?	
○ None of these.	
○ Lambda	
\bigcirc T	
Question 28	1 pts
Wave Speed = (Wavelength) x (Frequency)	
○ True	
○ False	

Question 29	1 pts
Which of the following parameters describe waves?	
○ Frequency	
All of these are parameters that describe waves.	
○ Wavelength	
○ Period	
○ Amplitude	
○ Wave Speed	
Question 30	1 pts
Wave amplitude affects the speed of a wave.	

○ True

○ False

Not saved

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