## **Transverse & Longitudinal Waves**

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

Started: Jul 12 at 1:08am

## **Quiz Instructions**

Lesson 2 for 4/20 to 4/23

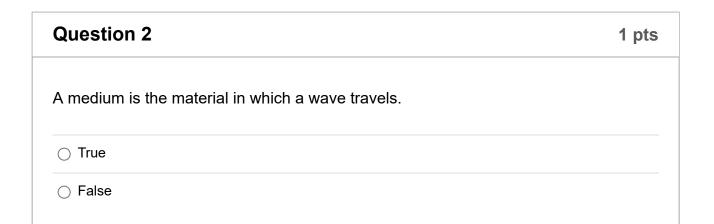
Instructions:

Watch the video and answer the quiz questions.

Lesson Video:

Transverse Longitudinal Waves Definition Examples - Video Lesson Transcript Studycom.mp4

Question 1	1 pts
A mechanical wave is disturbance that travels through a medium.	
⊖ True	
⊖ False	



Question 3	1 pts
What happens to particles in a transverse wave?	
<ul> <li>Particles move in a direction transverse (aka perpendicular) to the direction in which the wave travels.</li> </ul>	9
<ul> <li>Particles in the medium move in a direction transverse (aka perpendicular) to the direct which the wave travels.</li> </ul>	ion in
○ None of these.	
$\bigcirc$ Particles in the medium move in completely random directions.	

Question 4	1 pts
Mechanical waves can only be transverse.	
⊖ True	
⊖ False	

Question 5	1 pts
Mechanical waves can only be longitudinal.	
⊖ True	
⊖ False	

Question 7	1 pts
What happens to particles in a longitudinal wave?	
○ None of these.	
<ul> <li>Particles in the medium move in a direction transverse (aka perpendicular) to the dire which the wave travels.</li> </ul>	ction in
$\bigcirc$ Particles of the medium move parallel to the direction in which the wave travels.	
$\bigcirc$ Particles in the medium move in completely random directions.	

Question 8	1 pts
Mechanical waves can travel in a vacuum (aka a space with no medium).	
⊖ True	
⊖ False	



⊖ True	
⊖ False	

Question 10	1 pts
A compression is where the density of the wave medium is the highest.	
⊖ True	
⊖ False	

Question 11	1 pts
A rarefaction is where the density of the wave medium is the lowest.	
⊖ True	
⊖ False	

Question 12	1 pts
The wavelength of a longitudinal wave is the distance between compressions.	
⊖ True	
⊖ False	

Question 13	1 pts
The wavelength of a longitudinal wave is the distance between rarefactions	S.
○ True	
⊖ False	

Question 14	1 pts
Through which of the following can mechanical transverse waves travel? Choose all that apply.	
□ Plasma	
Gases	
Vacuums (aka no air)	

Question 15	1 pts
Through which of the following can mechanical longitudinal waves travel? Choose all that apply.	
Plasmas	
Gases	
Liquids	

□ Solids

□ Vacuum (aka no air)

Question 16	1 pts
In other for transverse waves to occur, the medium must be composed of partic that are strongly joined with one another.	les
⊖ True	
⊖ False	

Question 17	1 pts
Longitudinal earthquake waves are called 'S' waves.	
⊖ True	
⊖ False	

Question 18	1 pts
Transverse earthquake waves are called 'P' waves.	
⊖ True	
⊖ False	

Scientist discover the earth has a partially liquid core because
Choose all that apply.
□ S waves did not travel through the earth.
P waves traveled through the earth.
P waves did not travel through the earth.
P and S waves traveled through the earth.
○ None of these. The earth does not have a partially liquid core.
☐ S waves traveled through the earth.
P and S waves both did not travel through the earth.

## Question 20 1 pts The two major categories of waves are transverse and longitudinal. O True False

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