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

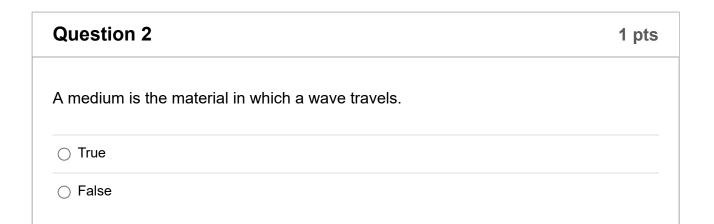
Instructions:

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? | |
| Particles move in a direction transverse (aka perpendicular) to the direction in which the wave travels. | 9 |
| Particles in the medium move in a direction transverse (aka perpendicular) to the direct which the wave travels. | 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. | |
| Particles in the medium move in a direction transverse (aka perpendicular) to the dire which the wave travels. | 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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