

## **Wave Properties Quiz PDF**

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Explain how waves transfer energy without transferring matter.		
How does changing the amplitude of a wave affect it	ts energy?	
	1,	
Which of the following is a mechanical wave?		
◯ Light wave		
Radio wave		
◯ Sound wave ◯ X-ray		
○ /······		

Discuss how refraction occurs and provide a real-world example.



	//
Describe the difference between transverse and longitudinal wave	es, providing an example of each.
	//
What is the unit of frequency?	
○ Meters	
○ Seconds	
○ Hertz	
○ Joules	
The energy of a wave is proportional to which of the following?	
○ Wavelength	
○ Frequency	
O Amplitude squared	
○ Speed	
Phase is measured in which units?	
○ Meters	
○ Seconds	
O Degrees or radians	
○ Hertz	
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What is the formula for wave speed?	

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$\bigcirc v = \lambda + f$	
$\bigcirc$ v = f $\lambda$	
$\bigcirc v = \lambda / f$	
$\bigcirc$ v = f - $\lambda$	
Why is amplitude squared used to describe the energy of a wave?	
	//
Which of the following are electromagnetic waves? (Select all that apply)	
☐ Sound waves	
Light waves	
☐ Radio waves	
☐ Water waves	
Which of the following describe a transverse wave? (Select all that apply)	
Particles move parallel to wave direction	
Particles move perpendicular to wave direction	
Light waves are an example	
Sound waves are an example	
Which property of sound waves determines the pitch?	
○ Amplitude	
○ Frequency	
○ Wavelength	
○ Speed	

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How do sound waves differ from light waves in terms of their propagation and medium

requirements?



What factors affect the energy carried by a wave? (Select all that apply)
Amplitude
□ Wavelength
Frequency
Phase
What happens to a wave during reflection?
O It speeds up
○ It bends
O It bounces back
○ It stops
Which of the following are examples of mach misslands are 2 (Coloct all that sumb)
Which of the following are examples of mechanical waves? (Select all that apply)
☐ Sound waves
☐ Water waves
Light waves
Seismic waves
What is a wave?
○ A transfer of matter
A disturbance that transfers energy
A stationary phenomenon
○ A solid object
Which phenomena involve the bending of waves? (Select all that apply)
Reflection
Refraction
Diffraction

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☐ Interference	
Which of the following are true about wave speed? (Select all that apply)	
☐ It is constant for all waves in a vacuum	
☐ It depends on the medium for mechanical waves	
$\Box$ It is calculated as v = f $\lambda$	
☐ It is independent of frequency	

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