

Wavelength Quiz PDF

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Which waves are used in medical imaging? (Select all that apply)
☐ Radio waves
☐ X-rays
☐ Gamma rays
Sound waves
Which part of the electromagnetic spectrum has the shortest wavelength?
○ Radio waves
○ Microwaves
○ Ultraviolet
○ Gamma rays
Which type of wave requires a medium to travel through?
○ Light waves
○ Radio waves
○ Sound waves
○ Gamma rays
Which of the following waves is part of the electromagnetic spectrum?
○ Sound waves
Ocean waves
○ Radio waves
○ Seismic waves
What is the speed of light in a vacuum?
○ 3 x 10^6 m/s
○ 3 x 10^8 m/s

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○ 3 x 10^10 m/s ○ 3 x 10^12 m/s
What is the relationship between wavelength and frequency?
Directly proportionalInversely proportionalUnrelatedEqual
What does the amplitude of a wave measure?
 The distance between wave crests The height of the wave The speed of the wave The frequency of the wave
Which of the following are types of electromagnetic waves? (Select all that apply)
X-raysSound wavesMicrowavesInfrared
Which of the following statements are true about light waves? (Select all that apply)
 ☐ They require a medium to travel ☐ They can travel through a vacuum ☐ They are part of the electromagnetic spectrum ☐ They have a constant speed in a vacuum
What are characteristics of waves? (Select all that apply)
 Wavelength Mass Frequency Amplitude

What is the unit of measurement for wavelength?



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○ Hertz
○ Meters
OJoules
○ Seconds
Which of the following are true about the electromagnetic spectrum? (Select all that apply)
☐ It includes visible light
☐ It consists only of waves that can be seen by the human eye
☐ It ranges from radio waves to gamma rays
☐ It includes sound waves
Who is known for the wave-particle duality theory?
Who is known for the wave-particle duality theory? O Isaac Newton
○ Isaac Newton
☐ Isaac Newton☐ Albert Einstein
☐ Isaac Newton☐ Albert Einstein☐ Niels Bohr
☐ Isaac Newton☐ Albert Einstein☐ Niels Bohr
Isaac NewtonAlbert EinsteinNiels BohrJames Clerk Maxwell
 Isaac Newton Albert Einstein Niels Bohr James Clerk Maxwell What factors affect the speed of a wave? (Select all that apply)
 ☐ Isaac Newton ☐ Albert Einstein ☐ Niels Bohr ☐ James Clerk Maxwell What factors affect the speed of a wave? (Select all that apply) ☐ Medium through which it travels