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# Physics Vibrations And Waves

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 Wave speed. Speed of a wave (m/s), changed by density of a substance, temp, etc., travels faster through solid than a gas.  
 Superposition. When two or more waves travel through the same medium, simultaneously, the resultant displacement at any given point is the vector sum of the displacement due to the individual waves.  
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 Physics Waves. Mechanical Wave  
 A mechanical wave is a travelling disturbance that transports energy through a medium  
 Created when a disturbance (vibration) causes vibrations in its vicinity  
 The particles in the medium are excited by vibrations in neighbouring particles  
 Examples: Sound wave (medium: air, solids and liquids)  
 Ocean wave

(medium: water)  
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A foundational study of waves and vibrations will prepare learners for advanced courses in physics and related fields of engineering. The skills utilized in analyzing these phenomena are applicable to many different systems because vibrations and waves are so ubiquitous. For instance, learners will understand how the "resonant" modes of a tall building are analogous to simple systems of coupled

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