#### Standing Waves

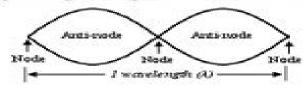
We know that waves move. Yet waves can be unpped between boundaries. These are known as standing waves.

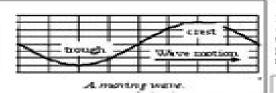
A jump rope is a good example of a standing trave.



To keep a standing wave going in weeks to have a chinese end an end that gives energy to the wave. Jump rope's have need driven ends.

The places of no amplitude are called nodes. The places of greatest amplitude are called anti-nodes.



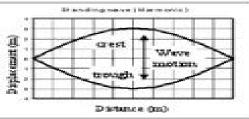


Standing waves are TRAPPED between boundaries, so we show both the crest and the trough in the same place at the same time. In reality, though, it a hemstes: going up and down, just like a jump rope.

In a standing wave, each anti-node is onehalf of a wavelength.

2 Anti-nodes =  $\lambda$ 

In a moving wave, the wave moves away from what drives it. Waves that move away from a rock in a pend are driven by the force of the rock pushing through the water.

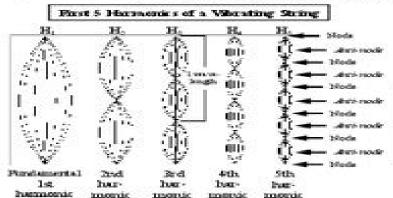


A graph of the fundamental wave for this distance.

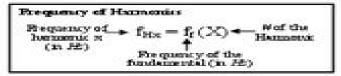
The largest wave that can be produced in a certain distance is called the fundamental. It is onehalf of one wavelength long.

#### History, conject

Hermonics are waves that are whole number multiples of the fundamental. Hermonics have nodes at the boundaries. Hamonics sound louder, keep their energy longer, and take less energy to produce.



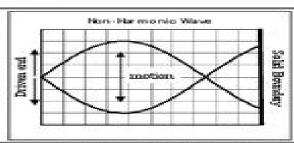
Examples of Pundamentals and their Harmonics				
His Oles	$H_2$	$H_{s}$	PL.	His
1 His	2 Hz	3 Hz	4 Hz	5 H:=
2 Hz	4 112	6 Hz	8 Hz	10 Hz
5 Hz	10 Hz	15 Hz	20 Hz	25 Hz
10 Hz	20 Hz	30 Hz	40 Hz	50 Hz



\$1. Find the frequency of the third harmonic (H<sub>3</sub>) of a 4 Hz functionerstal \$1 = 4 Hz functionersta

<ol> <li>If the fifth hormonic has a frequency of 55 Hz find the fundamental frequency.</li> </ol>				
$f_{23} = 55 \text{ Hz}$ 3C = 5 $f_d = 7$	$f_{t} = f_{t}(X)$ $f_{t} = f_{tt}/X = 55 \text{ Hz/5}$ $f_{t} = 11 \text{ Hz}$			

Non-harmonic viewes can be force d into boundaries, too. The viewe will to die out quickly, sound quieter (if a sound viewe), and take more energy to produce.



# **Standing Waves Worksheet 3 Key**

Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, Jay M. Pasachoff

# **Standing Waves Worksheet 3 Key:**

Cutnell & Johnson Physics John D. Cutnell, David Young, Kenneth W. Johnson, Shane Stadler, 2022 The newly revised Twelfth Edition of Cutnell's Physics delivers an effective and accessible introduction to college and university physics It contains easy to follow explanations of critical math and problem solving concepts From kinematics to work and energy temperature heat electricity magnetism and optics as well as foundational concepts in more advanced subjects like special relativity Physics is the ideal introductory text for students from any background The greatest strength of the text is the synergistic relationship it develops between problem solving and conceptual understanding The book lays emphasis on building relevance of physics in day to day living and highlights the physics principles that come into play A wide range of applications that are biomedical in nature and others that deal with modern technology **Prentice Hall Science** Explorer: Teacher's ed ,2005 Sound and Light Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, Jay M. Pasachoff, 2002 Rhoades To Reading Fourth Edition, Level V Answer Key Jacqueline Rhoades, 2004 Reading program designed for adults grade 5 adult Includes answers for activity sheets contained in the Level V Teacher Handbook Aviation Unit and The Physics of Sound and Music Eric J. Pulver,1998 Intermediate Maintenance Manual ,1992 Fifth International **Topical Meeting on Education and Training in Optics** C. H. F. Velzel, 1997 International Topical Meeting on Education and Training in Optics ,1997 Audio ,1944 Discourse Strategies for Science Teaching and Learning Kok-Sing Tang, 2020-10-28 This engaging and practical volume looks at discourse strategies and how they can be used to facilitate and enhance science teaching and learning within the classroom context offering a synthesis of research on classroom discourse in science education as well as practical discourse strategies that can be applied to the classroom Focusing on the connection between research and practice this comprehensive guide unpacks and illustrates key concepts on the role of discourse in students thinking and learning based on empirical analysis of real conversations in a number of science classrooms Using real life classroom examples to extend the scope of research into science classroom discourse begun during the 1990s Kok Sing Tang offers original discourse strategies as explicit methods of using discourse to engage in meaning making and work towards a specific instructional goal This volume covers new and informative topics including how to use discourse to Establish classroom activity and interaction Build and assess scientific content knowledge Organize and evaluate scientific narrative Enact scientific practices Coordinate the use of multimodal representations Building on more than ten years of research on classroom discourse Discourse Strategies for Science Teaching and Learning is an ideal

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