

Name: _____
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Standing Waves

Ch. 12-1

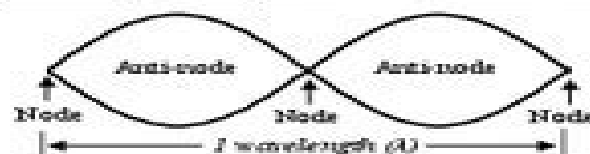
We know that waves move. Yet waves can be trapped between boundaries. These are known as *standing waves*.

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



To keep a standing wave going it needs to have a *driven end* and that gives energy to the wave. Jump ropes have *two driven ends*.

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



A moving wave.

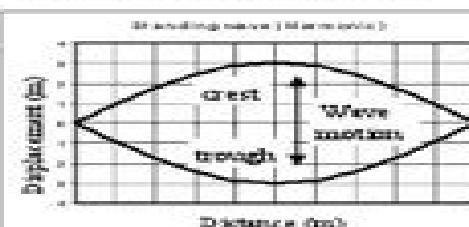
Standing waves are **TRAPPED** between boundaries, so we show both the crest and the trough in the same place at the same time. In reality, though, it alternates: going up and down, just like a jump rope.

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

$$1 \text{ Anti-node} = (1/2)\lambda$$

$$2 \text{ Anti-nodes} = \lambda$$

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



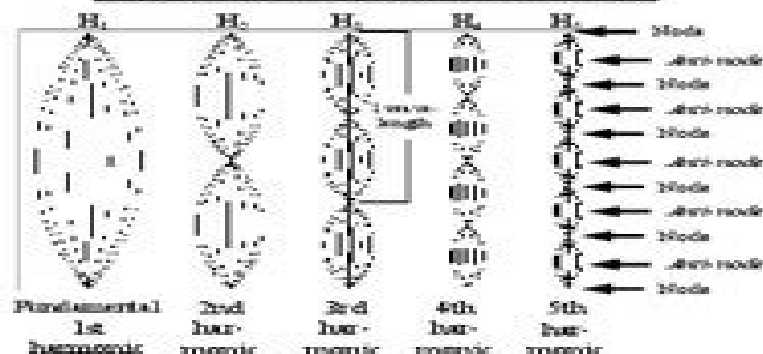
A graph of the fundamental wave for this distance.

The largest wave that can be produced in a certain distance is called the *fundamental*. It is one-half of one wave length long.

Harmonics

Harmonics are waves that are whole number multiples of the fundamental. Harmonics sound louder, keep their energy longer, and take less energy to produce.

First 5 Harmonics of a Vibrating String



Frequency of Harmonics

$$\text{Frequency of harmonic } n \rightarrow f_{Hn} = f_f (\infty) \leftarrow \begin{matrix} \uparrow \\ \text{Frequency of the} \\ \text{fundamental (in Hz)} \end{matrix} \leftarrow \begin{matrix} \leftarrow \\ \text{N of the} \\ \text{Harmonic} \end{matrix}$$

Ex. Find the frequency of the third harmonic (H_3) of a 4 Hz fundamental.

$$\begin{aligned} f_1 &= 4 \text{ Hz} \\ n &= 3 \\ f_{H3} &= ? \end{aligned}$$

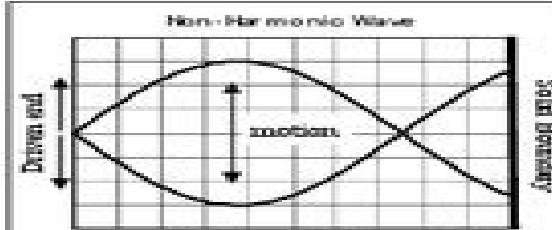
$$\begin{aligned} f_{Hn} &= f_f (\infty) \\ f_{H3} &= (4 \text{ Hz}) \times (3) \\ f_{H3} &= \underline{12 \text{ Hz}} \end{aligned}$$

Ex. If the fifth harmonic has a frequency of 55 Hz, find the fundamental frequency.

$$\begin{aligned} f_{H5} &= 55 \text{ Hz} \\ n &= 5 \\ f_1 &= ? \end{aligned}$$

$$\begin{aligned} f_{Hn} &= f_f (\infty) \\ f_1 &= f_{H5} / \infty = 55 \text{ Hz} / 5 \\ f_1 &= \underline{11 \text{ Hz}} \end{aligned}$$

Non-harmonic waves can be forced into boundaries, too. The waves will die out quickly, sound quieter (if a sound wave), and take more energy to produce.



Examples of Fundamentals and their Harmonics				
H_1 (f_1)	H_2	H_3	H_4	H_5
1 Hz	2 Hz	3 Hz	4 Hz	5 Hz
2 Hz	4 Hz	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

Standing Waves Worksheet 10 3 Key

Julia Schneider



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TABLE OF CONTENTS
PREP ANALYSIS
STAGE Unit Test of Physics Chemistry and Mathematics
THE ACQUAINTANCE STAGE Practice Sets 1 15
RESULT PREDICTION STAGE Solved Paper 2014 2018 Online JEE Main April 2019 Online JEE Main January 2019

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Table of Contents Standing Waves Worksheet 10 3 Key

1. Understanding the eBook Standing Waves Worksheet 10 3 Key
 - The Rise of Digital Reading Standing Waves Worksheet 10 3 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Standing Waves Worksheet 10 3 Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Standing Waves Worksheet 10 3 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Standing Waves Worksheet 10 3 Key
 - Personalized Recommendations
 - Standing Waves Worksheet 10 3 Key User Reviews and Ratings
 - Standing Waves Worksheet 10 3 Key and Bestseller Lists
5. Accessing Standing Waves Worksheet 10 3 Key Free and Paid eBooks
 - Standing Waves Worksheet 10 3 Key Public Domain eBooks
 - Standing Waves Worksheet 10 3 Key eBook Subscription Services
 - Standing Waves Worksheet 10 3 Key Budget-Friendly Options
6. Navigating Standing Waves Worksheet 10 3 Key eBook Formats

- ePub, PDF, MOBI, and More
- Standing Waves Worksheet 10 3 Key Compatibility with Devices
- Standing Waves Worksheet 10 3 Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Standing Waves Worksheet 10 3 Key
 - Highlighting and Note-Taking Standing Waves Worksheet 10 3 Key
 - Interactive Elements Standing Waves Worksheet 10 3 Key
- 8. Staying Engaged with Standing Waves Worksheet 10 3 Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Standing Waves Worksheet 10 3 Key
- 9. Balancing eBooks and Physical Books Standing Waves Worksheet 10 3 Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Standing Waves Worksheet 10 3 Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Standing Waves Worksheet 10 3 Key
 - Setting Reading Goals Standing Waves Worksheet 10 3 Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Standing Waves Worksheet 10 3 Key
 - Fact-Checking eBook Content of Standing Waves Worksheet 10 3 Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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