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## Standing Waves

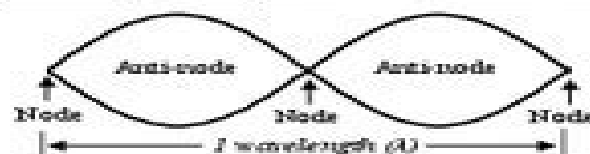
We know that waves move. Yet waves can be trapped between boundaries. These are known as *standing waves*.

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.*

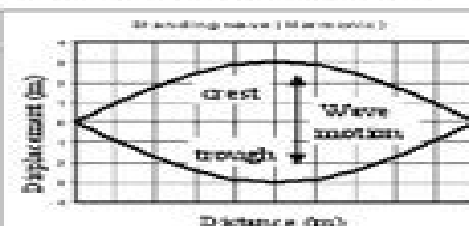
Standing waves are **TRAPPED** between boundaries, so we show both the crest and the trough in the same place at the same time. In reality, though, it alternates: going up and down, just like a jump rope.

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.



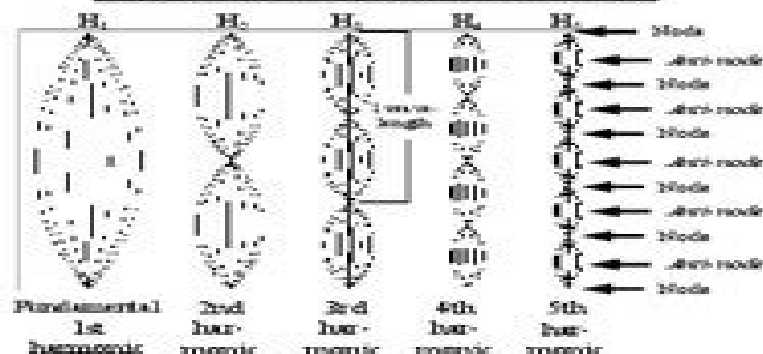
*A graph of the fundamental wave for this distance.*

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* have nodes at the boundaries. 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.

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

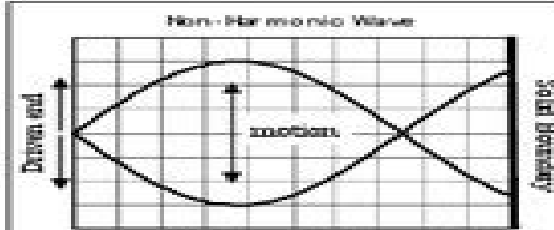
$$\begin{aligned} f_{Hn} &= f_f (\infty) \\ f_{H3} &= (4 \text{ Hz}) \times (3) \\ f_{H3} &= \underline{12 \text{ Hz}} \end{aligned}$$

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

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

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

**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				
$H_1$ ( $f_f$ )	$H_2$	$H_3$	$H_4$	$H_5$
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

**David Halliday, Robert Resnick, Jearl Walker**



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