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## Standing Waves

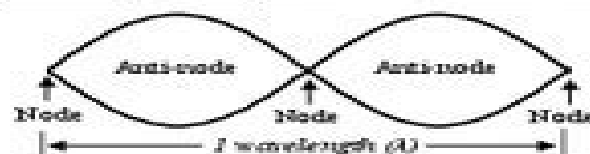
We know that waves move. Yet waves can be trapped between boundaries. These are known as *standing waves*.

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.

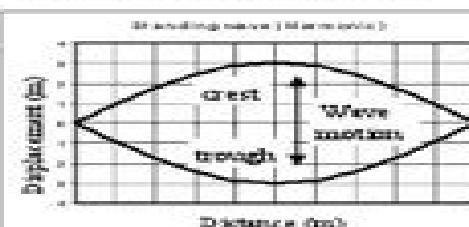
Standing waves are **TRAPPED** between boundaries, so we show both the crest and the trough in the same place at the same time. In reality, though, it alternates: going up and down, just like a jump rope.

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.



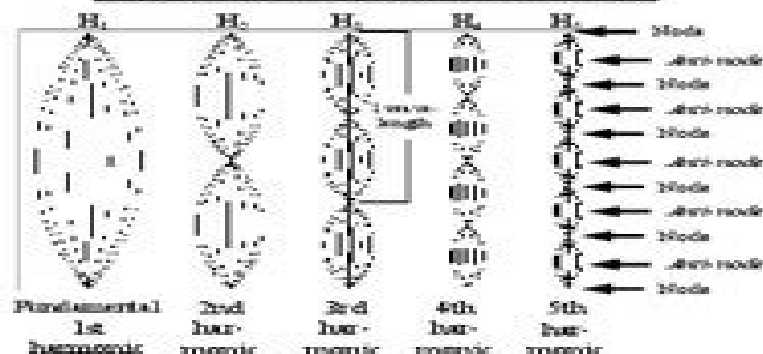
A graph of the fundamental wave for this distance.

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 sound louder, keep their energy longer, and take less energy to produce.

#### First 5 Harmonics of a Vibrating String



#### Frequency of Harmonics

$$\text{Frequency of harmonic } n \rightarrow f_{Hz} = f_f (\infty) \leftarrow \text{N of the Harmonic}$$

$$\uparrow$$

$$\text{Frequency of the fundamental (in Hz)}$$

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

$$f_1 = 4 \text{ Hz}$$

$$N = 3$$

$$f_{H3} = ?$$

$$f_{H3} = f_f (\infty)$$

$$f_{H3} = (4 \text{ Hz}) \times (3)$$

$$f_{H3} = 12 \text{ Hz}$$

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

$$f_{H5} = 55 \text{ Hz}$$

$$N = 5$$

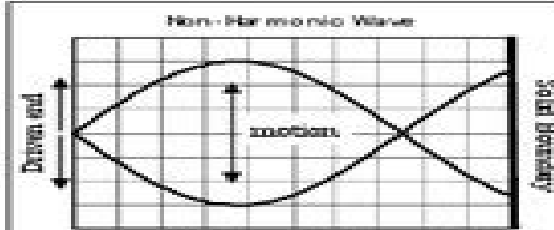
$$f_f = ?$$

$$f_{H5} = f_f (\infty)$$

$$f_f = f_{H5} / N = 55 \text{ Hz} / 5$$

$$f_f = 11 \text{ Hz}$$

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

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the Adda247 Publications text.

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