

## Standing Waves

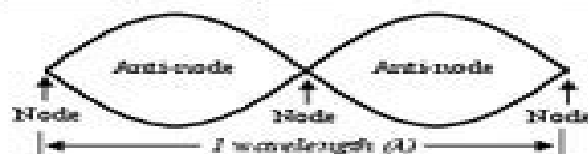
We know that waves move. Yet waves can be trapped between boundaries. These are known as *standing waves*.

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.

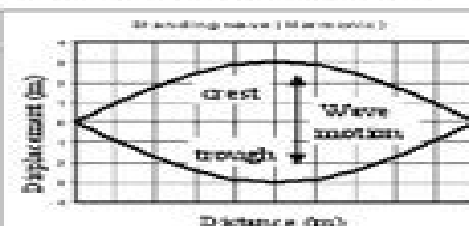
Standing waves are **TRAPPED** between boundaries, so we show both the crest and the trough in the same place at the same time. In reality, though, it alternates: going up and down, just like a jump rope.

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.



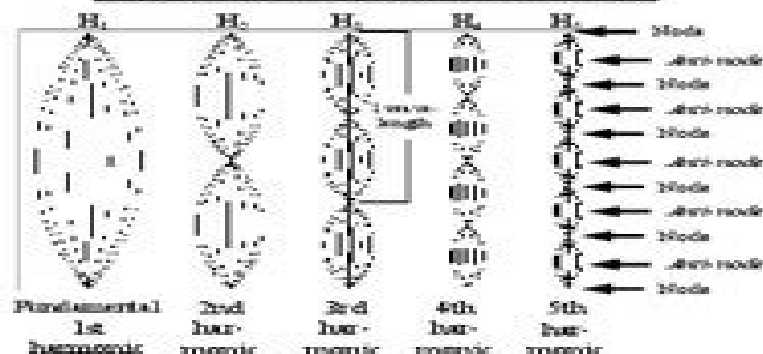
A graph of the fundamental wave for this distance.

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

$$\text{Frequency of harmonic } n \rightarrow f_{Hz} = f_1 (\infty) \leftarrow \begin{matrix} \uparrow \\ \text{Frequency of the} \\ \text{fundamental (in Hz)} \end{matrix} \leftarrow \begin{matrix} \leftarrow \\ \text{N of the} \\ \text{Harmonic} \end{matrix}$$

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

$$\begin{matrix} f_1 = 4 \text{ Hz} \\ n = 3 \\ f_{Hz} = ? \end{matrix} \quad \begin{matrix} f_{Hz} = f_1 (\infty) \\ f_{Hz} = (4 \text{ Hz}) \times (3) \\ f_{Hz} = \underline{12 \text{ Hz}} \end{matrix}$$

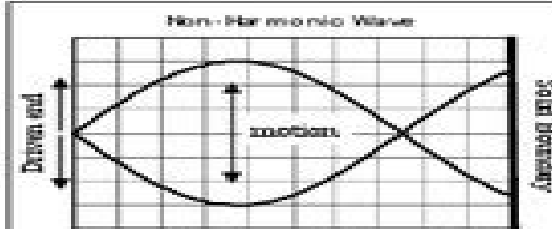
Ex. If the fifth harmonic has a frequency of 55 Hz, find the fundamental frequency.

$$\begin{matrix} f_{Hz} = 55 \text{ Hz} \\ n = 5 \\ f_1 = ? \end{matrix} \quad \begin{matrix} f_{Hz} = f_1 (\infty) \\ f_1 = f_{Hz} / n = 55 \text{ Hz} / 5 \\ f_1 = \underline{11 \text{ Hz}} \end{matrix}$$

#### Examples of Fundamentals and their Harmonics

$H_1$ (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

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.



# Standing Waves Worksheet 3 Key

**Johnnie Young**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

### **Standing Waves Worksheet 3 Key:**

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