

Standing Waves

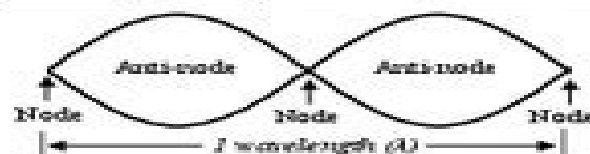
We know that waves move. Yet waves can be trapped between boundaries. These are known as *standing waves*.

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.

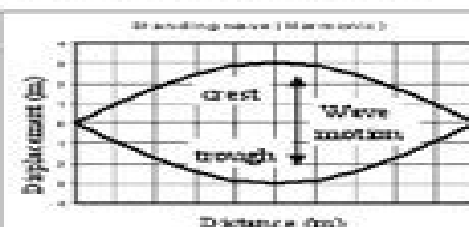
Standing waves are **TRAPPED** between boundaries, so we show both the crest and the trough in the same place at the same time. In reality, though, it alternates: going up and down, just like a jump rope.

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.



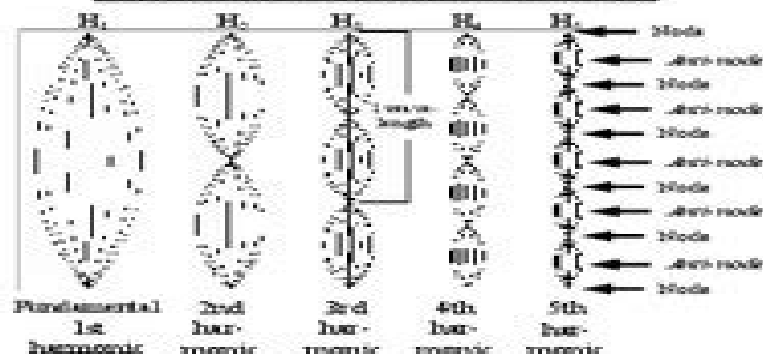
A graph of the fundamental wave for this distance.

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

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

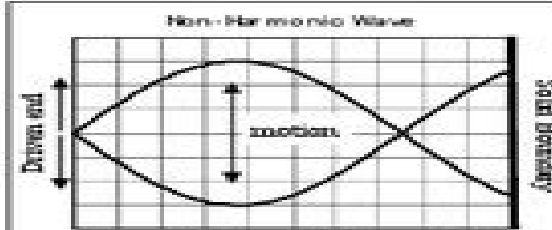
$$\begin{aligned} f_{Hn} &= f_f (\infty) \\ f_{H3} &= (4 \text{ Hz}) \times (3) \\ f_{H3} &= \underline{12 \text{ Hz}} \end{aligned}$$

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 3 Key

Kok-Sing Tang

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.

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