

## Standing Waves

Let's assume that electromagnetic waves travel a way for trapped between two mirrors. There are standing waves.

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



The jump is made negative going down to form a disturbance and then goes away to the wave. Jump rope is like a standing wave.

The places of zero amplitude are called nodes. The places of greatest amplitude are called antinodes.



A standing wave.

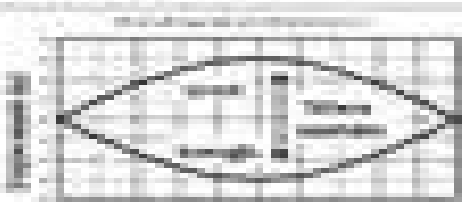
Standing waves are created by interference between two waves, so we have both the wave and the trough at the same place at the same time. In reality, though, it's a mixture going up and down, just like a jump rope.

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

$$1 \text{ Antinode} = \frac{1}{2} \lambda$$

$$2 \text{ Antinodes} = \lambda$$

Two standing waves (the same wave) are shown. The first wave is shown. The second wave is shown. The first wave is shown. The second wave is shown.



Standing wave.

A graph of the fundamental wave for the string.

The longest wave that can be produced in a string fixed at both ends is called the fundamental. It is one-half of one wavelength long.

### Part 1: Measure $\lambda$ of a Vibrating String



### Frequency of Harmonics

Frequency of the fundamental is  $f_1 = \frac{v}{\lambda_1}$  and the frequency of the harmonics is  $f_n = \frac{v}{\lambda_n}$ .

(1) Effect of frequency of the string harmonic (length is 1.0 m, fundamental)

$f_1 = 100 \text{ Hz}$	$f_2 = 200 \text{ Hz}$
$f_3 = 300 \text{ Hz}$	$f_4 = 400 \text{ Hz}$
$f_5 = 500 \text{ Hz}$	$f_6 = 600 \text{ Hz}$

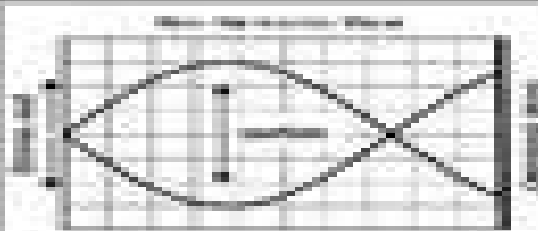
(2) Effect of frequency of the string harmonic (length is 1.0 m, fundamental)

$f_1 = 100 \text{ Hz}$	$f_2 = 200 \text{ Hz}$
$f_3 = 300 \text{ Hz}$	$f_4 = 400 \text{ Hz}$
$f_5 = 500 \text{ Hz}$	$f_6 = 600 \text{ Hz}$

Examples of Harmonics and their Frequencies

1st harmonic	2nd harmonic	3rd harmonic	4th harmonic	5th harmonic
$f_1 = 100 \text{ Hz}$	$f_2 = 200 \text{ Hz}$	$f_3 = 300 \text{ Hz}$	$f_4 = 400 \text{ Hz}$	$f_5 = 500 \text{ Hz}$

The frequency of the string can be found by the formula  $f = \frac{v}{\lambda}$ . The wave velocity is the speed of the wave in the string, and  $v$  is the wave velocity.



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Standing Waves Unit 10 3 C Stephen Murray Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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