

### Standing Wave Mathematics

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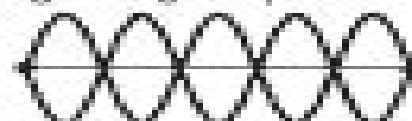
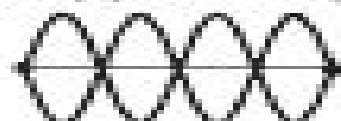
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MCOT Connections: Physics sublevels 7 and 8

A standing wave pattern results in a string, rope or snakey as a result of the interaction between the waves introduced on one end with the reflections of the waves returning from the opposite end. At certain frequencies, a pattern will be established within the medium in which there are positions that always appear to be stationary. Midway between each of these stationary positions are positions which are undergoing rapid motion between a maximum positive and maximum negative displacement from their resting position.

1. The positions along the medium that appear to be stationary are known as \_\_\_\_\_. They are points of no displacement.
2. The positions along the medium that are undergoing rapid motion between a maximum positive and maximum negative displacement are known as \_\_\_\_\_. They are the opposite of the points of no displacement.
3. Label the nodes (N) and antinodes (AN) in the following standing wave patterns.



4. In each of the two diagrams of standing wave patterns, count the number of nodes and antinodes.



5. Each node is separated by the adjacent node by a distance that is equal to \_\_\_\_\_ wavelength.
6. Draw the standing wave patterns that would result on the string below if the string vibrated with the first, second, and third harmonic wave patterns. State the relationship between length and wavelength for each of the three patterns.

1st Harmonic

2nd Harmonic

3rd Harmonic



$$L = \text{_____} \lambda$$

$$L = \text{_____} \lambda$$

$$L = \text{_____} \lambda$$

7. Suppose that the string in the above diagram is 1.2 meters long. Determine the wavelength of the waves shown in each of these three patterns.

1st Harmonic

2nd Harmonic

3rd Harmonic

# Standing Waves Answer Key

**Richard Bailey**

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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