

Anatomy of a Wave Worksheet **Answers**

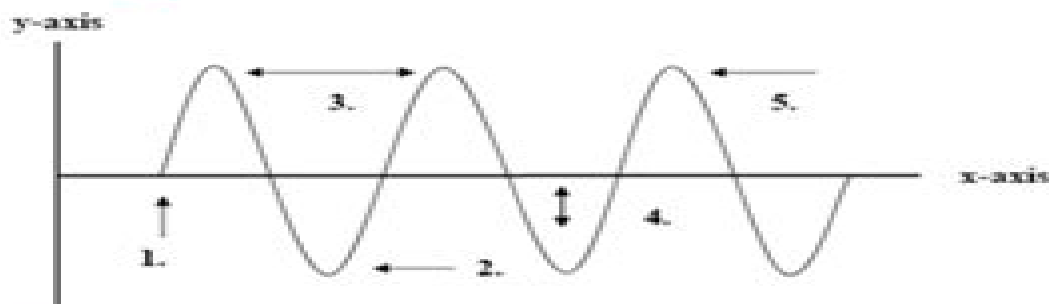
Objective: Identify the parts of a wave and draw your own diagrams of waves.

Background: Many types of waves exist, including electromagnetic waves and mechanical waves. Waves move in different ways and have different properties.

Part 1

In the diagram below, identify the parts of a wave by using the provided definitions.

- # 5 = **crest** The highest point of the wave above the line of origin.
- # 2 = **trough** The lowest point of the wave below the line of origin.
- # 1 = **line of origin** Signifies the original position of the medium.
- # 3 = **wavelength** The distance between two consecutive crests.
- # 4 = **amplitude** The distance from the line of origin to a crest or trough of a wave.



Part 2

On separate sheets of graph paper, draw four different waves with the following measurements. Label the parts and include the measurements.

wave #	crest	trough	wavelength
1	1 cm	1 cm	2 cm
2	3.5 cm	3.5 cm	2.5 cm
3	.5 cm	.5 cm	3 cm
4	2 cm	2cm	.5 cm

Concluding question: State which wave you think has the *highest frequency* and which might have the *lowest frequency*. Explain the reasons for your selections.

#4 has the highest frequency because it has the shortest wavelength, and frequency is inversely proportional to wavelength.

#3 has the lowest frequency because it has the longest wavelength, and frequency is inversely proportional to wavelength.

Mechanical Waves Review Answers

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Mechanical Waves Review Answers:

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mechanical Waves Review Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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