

Anatomy of a Wave Worksheet **Answers**

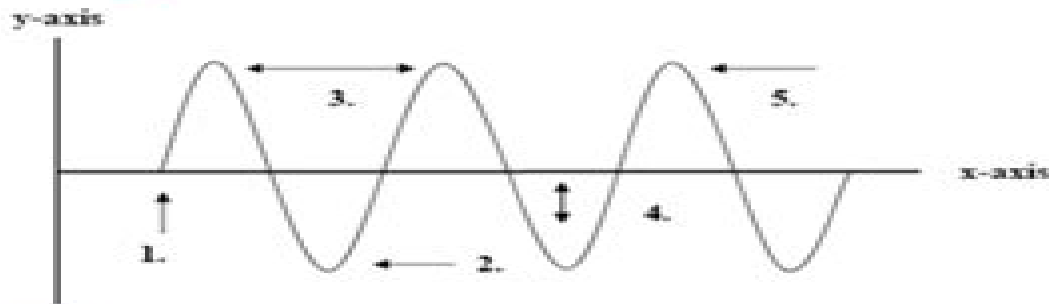
Objective: Identify the parts of a wave and draw your own diagrams of waves.

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

David Halliday, Robert Resnick, Jearl Walker



Mechanical Waves Review Answers:

The Enigmatic Realm of **Mechanical Waves Review Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Mechanical Waves Review Answers** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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