

Anatomy of a Wave Worksheet **Answers**

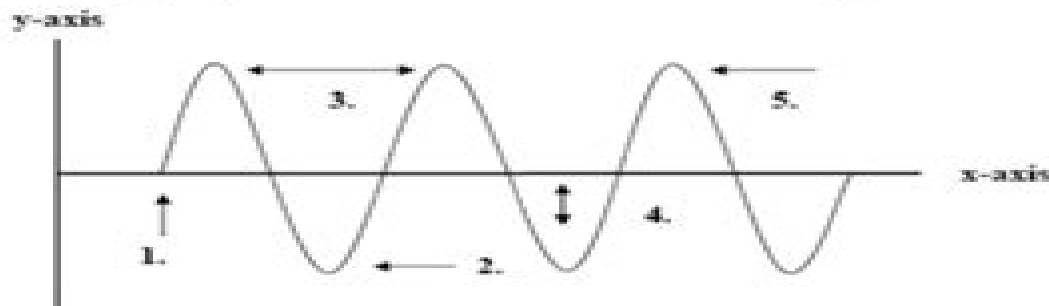
Objective: Identify the parts of a wave and draw your own diagrams of waves.

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.

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