Name:	Date:
Name.	Date.

## Anatomy of a Wave Worksheet

**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.

#\_\_\_ = crest The highest point of the wave above the line of origin.

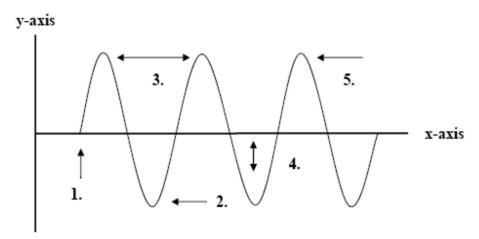
#\_\_\_ = trough The lowest point of the wave below the line of origin.

#\_\_\_ = line of origin Signifies the original position of the medium.

#\_\_\_ = wavelength The distance between two consecutive crests.

#\_\_ = amplitude The distance from the line of origin to a crest or trough or

#\_\_\_ = 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.