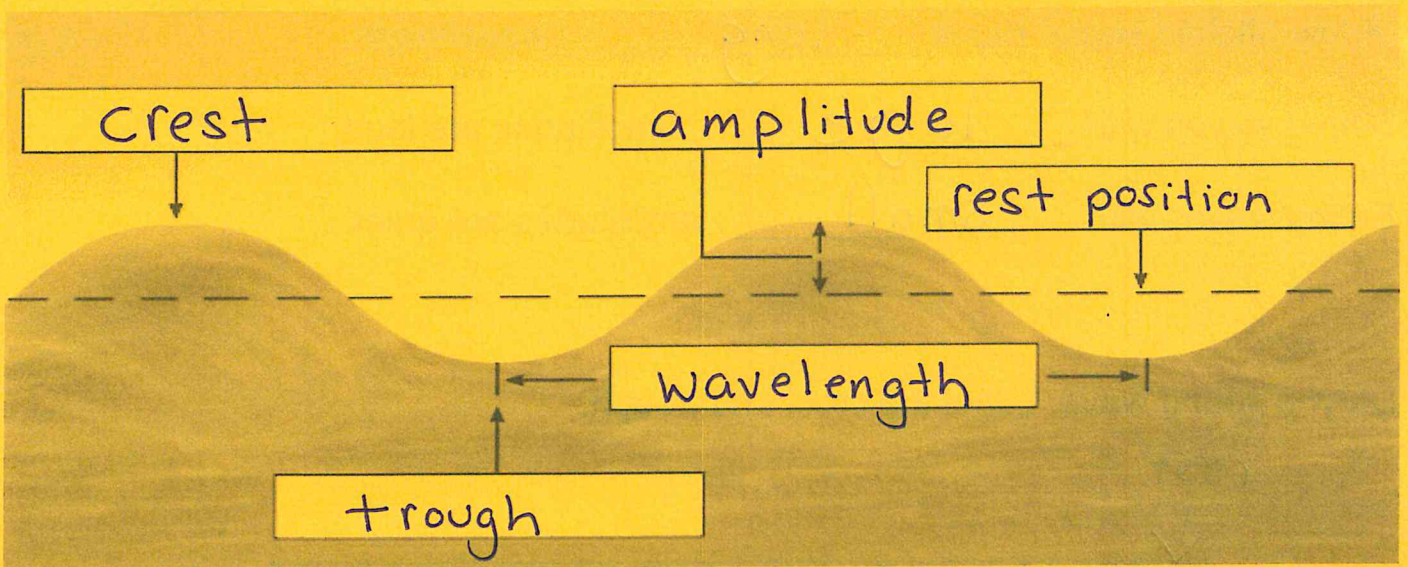


Name Key

### Unit 4: Waves Study Guide

1) Label the diagram below. Use the vocabulary you have learned.



crest	trough	wavelength	rest position	amplitude
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2. Draw the following waves below.

Large Amplitude	Small Amplitude
Large Wavelength	Small Wavelength

3. If you **INCREASE** the wavelength, you will have less waves.

4. If you **DECREASE** the wavelength, you will have more waves.

# Word bank

large	long	short	small
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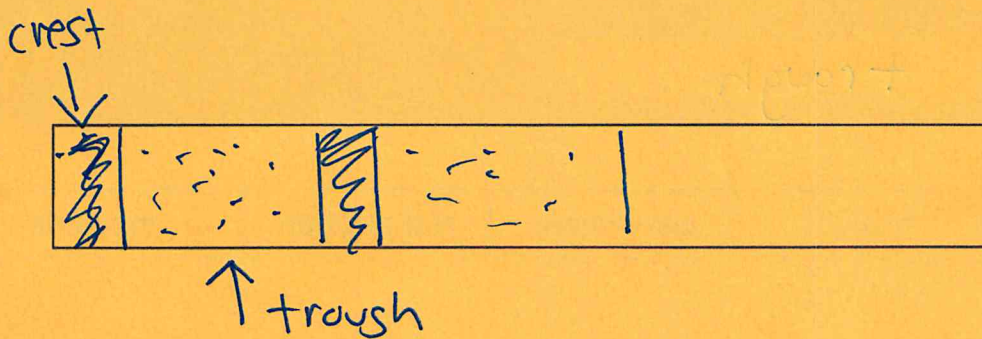
5. A high-pitched sound has a short wavelength.

6. A low-pitched sound has a long wavelength.

7. Sound waves with large amplitudes are loud.

8. Sound waves with small amplitudes are quiet.

9. Draw a sound wave. Label the crest and trough.



13. Draw an arrow showing how matter moves in each type of wave below.

Water	String	Sound
How does the matter move? <u>circles</u>	How does the matter move? <u>side to side</u>	How does the matter move? <u>backward &amp; forward</u>

14. What does frequency mean? how often a crest passes a certain point for 1 minute