



Waves: Light and Sound

Name: _____

Date: _____

Grade: Grade 4

Part A: Fill in the Blank

Write the missing word or number on each line.

1. The distance from one wave peak to the next peak is called the _____.
2. The height of a wave from the middle line up to the top is called the _____.
3. The number of waves that pass a point in one second is the wave's _____.
4. A drum hit very softly makes a sound wave with a small _____, so the sound is quiet.
5. A flute note that is very high in pitch has a _____ frequency than a low tuba note.
6. Two sound waves with the same wavelength but different amplitudes will sound the same in pitch but different in _____.
7. On a wave diagram, the lowest point of the wave is called a _____.
8. Light waves that have a short wavelength and high frequency look more _____ to our eyes.
9. When a vibration sends out energy that travels through air or water, that moving energy is called a _____.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Wavelength	→	_____	Distance from one peak to the next peak
Amplitude	→	_____	Height of the wave from middle to top
Frequency	→	_____	Number of waves per second
Crest	→	_____	The very top point of a wave

Part A: Fill in the Blank

Write the missing word or number on each line.

1. The distance from one wave peak to the next peak is called the wavelength .
2. The height of a wave from the middle line up to the top is called the amplitude .
3. The number of waves that pass a point in one second is the wave's frequency .
4. A drum hit very softly makes a sound wave with a small amplitude , so the sound is quiet.
5. A flute note that is very high in pitch has a higher frequency than a low tuba note.
6. Two sound waves with the same wavelength but different amplitudes will sound the same in pitch but different in volume .
7. On a wave diagram, the lowest point of the wave is called a trough .
8. Light waves that have a short wavelength and high frequency look more blue to our eyes.
9. When a vibration sends out energy that travels through air or water, that moving energy is called a wave .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Wavelength	→	<u>Distance from one peak to the next peak</u>	Distance from one peak to the next peak
Amplitude	→	<u>Height of the wave from middle to top</u>	Height of the wave from middle to top
Frequency	→	<u>Number of waves per second</u>	Number of waves per second
Crest	→	<u>The very top point of a wave</u>	The very top point of a wave