



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. In Grade 4 music science, a shorter guitar string makes a _____ pitch than a longer one.
2. Grade 4: a big drum with a wide head usually makes a _____ pitched sound.
3. How fast a string vibrates each second is called its _____ in Grade 4 science.
4. A flute is a _____ instrument that makes sound when air vibrates inside its tube in Grade 4.
5. Grade 4: tightening a guitar string makes the pitch go _____.
6. The loudness of a sound wave is called its _____ in Grade 4 science.
7. When sound moves from the instrument to your ear, scientists call it _____ in Grade 4 class.
8. A long pipe organ tube usually plays a _____ note than a short tube in Grade 4 music.
9. Grade 4 students learn that pitch depends on the _____ of the vibration.

Part B: Matching

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

1. Match each item to its correct answer.

Grade 4: short guitar string	→ _____	Higher pitch
Grade 4: big bass drum	→ _____	Lower pitch
Grade 4: flute	→ _____	Vibrating air column
Grade 4: tighter string	→ _____	Pitch goes up

Part A: Fill in the Blank

Write the missing word or number on each line.

1. In Grade 4 music science, a shorter guitar string makes a higher pitch than a longer one.
2. Grade 4: a big drum with a wide head usually makes a lower pitched sound.
3. How fast a string vibrates each second is called its frequency in Grade 4 science.
4. A flute is a woodwind instrument that makes sound when air vibrates inside its tube in Grade 4.
5. Grade 4: tightening a guitar string makes the pitch go up .
6. The loudness of a sound wave is called its volume in Grade 4 science.
7. When sound moves from the instrument to your ear, scientists call it transmission in Grade 4 class.
8. A long pipe organ tube usually plays a lower note than a short tube in Grade 4 music.
9. Grade 4 students learn that pitch depends on the speed of the vibration.

Part B: Matching

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

1. Match each item to its correct answer.

Grade 4: short guitar string	→ <u>Higher pitch</u>	Higher pitch
Grade 4: big bass drum	→ <u>Lower pitch</u>	Lower pitch
Grade 4: flute	→ <u>Vibrating air column</u>	Vibrating air column
Grade 4: tighter string	→ <u>Pitch goes up</u>	Pitch goes up