

Name _____ Date _____

Instructions: Read each question carefully and choose the best answer.

1. What is true about sound?
 - Ⓐ It is a form of energy.
 - Ⓑ It is caused by vibrations.
 - Ⓒ Its waves move through air, water, and solids.
 - Ⓓ All of the above
2. Low-frequency sound waves create a sound that _____.
 - Ⓐ travels quickly
 - Ⓑ has a low pitch
 - Ⓒ has a low volume
 - Ⓓ travels through water
3. What is a **cochlea**?
 - Ⓐ a type of hearing aid
 - Ⓑ a snail-shaped part of the inner ear
 - Ⓒ a device used to measure the frequency of sound
 - Ⓓ a musical instrument used to make a low frequency
4. Which statement is true?
 - Ⓐ A high-frequency wave always has loud volume.
 - Ⓑ All sound waves travel at the same rate of speed.
 - Ⓒ A high pitch is caused by fast-moving sound waves.
 - Ⓓ A sonic boom is created by the low pitch of thunder.
5. What is **onomatopoeia**?
 - Ⓐ a bone in the middle ear
 - Ⓑ words that imitate sounds
 - Ⓒ a certain frequency of sound
 - Ⓓ the nerve running from the ear to the brain

Quick Check continued on following page

Name _____ Date _____

6. Which of the following is the best summary statement for the section titled "How Is Sound Used?"
 - Ⓐ Animals are able to use sound to communicate what they want to other creatures.
 - Ⓑ Sound is used by people and other animals to warn, to live better, and to communicate.
 - Ⓒ There are many new and innovative ways humans are using sound today.
 - Ⓓ Sound is helpful to humans because it warns them of danger.
7. **Echolocation** helps bats _____.
 - Ⓐ find their homes
 - Ⓑ hear their young
 - Ⓒ find food at night
 - Ⓓ communicate with others
8. What could cause permanent hearing loss?
 - Ⓐ machinery
 - Ⓑ loud music
 - Ⓒ clanging metal
 - Ⓓ all of the above
9. Why does sound travel more quickly in colder air than in warmer air?
 - Ⓐ Colder air is closer to the earth.
 - Ⓑ Particles are closer together in colder air.
 - Ⓒ Particles are closer together in warmer air.
 - Ⓓ All of the above
10. Which substance would sound travel through the slowest?
 - Ⓐ oxygen
 - Ⓑ milk
 - Ⓒ door
 - Ⓓ wall
11. **Extended Response:** Explain in sequence how human ears work.
12. **Extended Response:** What is the author's purpose for writing this book?

Quick Check Answer Sheet

How Sound Works

Main Comprehension Skill: Interpret Charts and Graphs

1. Ⓓ *Main Idea and Details*
2. Ⓑ *Main Idea and Details*
3. Ⓑ *Vocabulary*
4. Ⓒ *Make Inferences / Draw Conclusions*
5. Ⓑ *Vocabulary*
6. Ⓑ *Main Idea and Details*
7. Ⓒ *Main Idea and Details*
8. Ⓓ *Main Idea and Details*
9. Ⓑ *Main Idea and Details*
10. Ⓐ *Make Inferences / Draw Conclusions*
11. Answers will vary but should include the following: *first the outer ear gathers sound, next the middle and inner ears transfer the sound to nerves, and finally the nerves carry impulses to the brain.*
12. Answers will vary, but should include the following: *the author's purpose is to inform readers about sound, including where it comes from, how it is used, and how we hear sound.*