The Sounds of Baseball

Student Worksheet:

1. 1. What are sounds the result of?

A air molecules

B ears

C voice boxes

Dvibrations

2. . What main examples are described in the text to illustrate how sounds are created?

A hot dog vendor shouting, the bat hitting the ball, the ball hitting the ground

B people speaking into microphones, the organ playing music, the bat hitting the

ball

C hot dog vendor shouting, the organ playing music, the bat hitting the ball

D hot dog vendor shouting, the organ playing music, the fans clapping

3. After a sound is made there is a delay before a person is able to hear it. What

evidence from the text supports this conclusion?

A Fans in the stadium hear the sound the bat makes when it hits the ball

microseconds after impact.

B After a vibration of any kind, the molecules of the object knock into the

molecules of air.

C Fans hear the hit of the bat and use their vocal cords to start new vibrations of

cheer.

D Sound waves of vibrations make a connection inside a person’s ear.

4. Which of the following occurs when a person’s brain processes sound?

A The brain starts to send the molecules around it into unrest.

B The brain also determines whether it is a familiar sound or not.

C The brain sends the sound waves to the ear.

D The brain starts to vibrate.

5. What is this passage mainly about?

A the way air molecules bash into each other

B examples of sound being created at a baseball game and the science behind the

sounds

C how sound waves of vibrations make a connection inside a person’s ear

D baseball games, hot dog vendors, and organs

6.Read the following sentence: “After a vibration of any kind, the molecules of the

object knock into the molecules of air that surround it, or possibly the molecules of

another object next to it. Air molecules bash into each other like millions of microscopic

Ping-Pong balls, transporting the sound through what becomes a sound wave.”

What does the word “bash” most nearly mean?

A get stuck

B melt

C to hit hard

D run away

7.. Choose the answer that best completes the sentence below.

\_\_\_\_\_\_\_\_\_\_ the hot dog vendor to yell out, his voice box vibrates first.

A And

B After

C Because

D In order for

8. Why does a baseball bat make a sound when it hits the ball at a baseball game?

Support your answer with information from the text.

9. Explain how a hot dog vendor is able to yell out, “Hot dogs are here!” for others to

hear at a baseball game.

10. Explain how sound waves are created and why they must be created for a person to

hear sound. Use information from the text to support your answer.