

Sound Moves Matter

Read how vibrations make sounds and start new vibrations.

2.8.A “demonstrate and explain that sound is made by vibrating matter and that vibrations can be caused by a variety of means, including sound;”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline words that name matter that vibrates. Circle words that tell what starts each vibration, so you can track how sound is made and passed along.

Ava's Sound Test

- ① Ava taps a metal spoon against a cup. The spoon moves back and forth very fast. This tiny back-and-forth motion is called a vibration. The moving spoon makes the air near it move too. Ava hears a clear clink.
- ② Next, Ava plucks a rubber band stretched around a box. The band shakes quickly, and the box and nearby air also vibrate. Her ears receive the moving air, so she hears a twang. Sound begins when matter vibrates.
- ③ Vibrations can start in more than one way. Ava strikes a drum, plucks a band, or speaks near a paper cup. Her voice makes the air vibrate. The moving air can make the cup's thin bottom vibrate.

2 ANSWER WITH EVIDENCE Use the passage

1 What moved back and forth when Ava tapped the cup?

2 How did Ava's voice make the paper cup's bottom vibrate?

3 Name two different ways the passage says a vibration can start.

3 YOUR TURN Your own words

Draw two panels. In Panel 1, show an object making a sound by vibrating. In Panel 2, show that sound making a different object vibrate. Label the matter that vibrates in each panel.



PART 1 • READ AND MARK

Underline words that name matter that vibrates. Circle words that tell what starts each vibration, so you can track how sound is made and passed along. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What moved back and forth when Ava tapped the cup?	The metal spoon moved back and forth.
2	How did Ava's voice make the paper cup's bottom vibrate?	Her voice made the air vibrate. The moving air made the cup's thin bottom vibrate.
3	Name two different ways the passage says a vibration can start.	Answers may include striking a drum, plucking a band or rubber band, tapping a spoon, or speaking.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Panel 1: A hand strikes a triangle. Labels: "triangle vibrates" and "sound." Panel 2: Sound reaches a sheet of paper. Label: "paper vibrates."

Accept any accurate objects made of matter, as long as the first object vibrates to make sound and sound causes a different object to vibrate. Labels may use words or clear arrows.