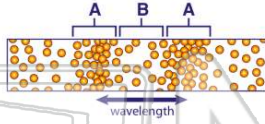




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

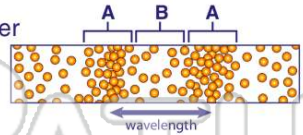
1 The diagram below shows the **air molecules** in part of a sound wave. The part of the wave that is labeled **B** is called a \_\_\_\_\_.

- A condensation
- B reflection
- C compression
- D rarefaction



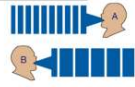
2 Look at the areas labeled **A** in this diagram of longitudinal sound waves. These areas are called **compressions** because the **particles of the sound waves** are \_\_\_\_\_.

- A close together
- B soft
- C far apart
- D reflecting



3 The diagram below shows sound waves from **two different voices**. What is the difference between these waves?

- A Sound A is louder than sound B.
- B Sound B has a higher frequency than sound A.



4 The diagram below shows the **human ear**. What type of **energy conversion** is necessary in the ear for hearing to actually occur?

- A electrical to chemical
- B mechanical to chemical



## PREVIEW

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True or false?

- A true
- B false



- A wavelength
- B loudness
- C frequency
- D amplitude



9 Matter's ability to **bounce back** after it is disturbed is called \_\_\_\_\_.

- A reflection
- B elasticity
- C rarefaction
- D compression

10 The phrase "heat lightning" is often used when people see lightning but **do not hear thunder**. What is the explanation for this?

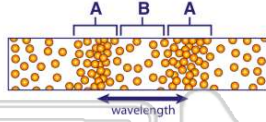
- A Lightning does not always cause thunder.
- B Thunder was produced, but the sound was too far away to be heard.
- C Some thunder frequencies are high above the range of human hearing.
- D Some thunder frequencies are below the range of human hearing.



## ANSWER KEY

The diagram below shows the **air molecules** in part of a sound wave. The part of the wave that is labeled **B** is called a \_\_\_\_\_.

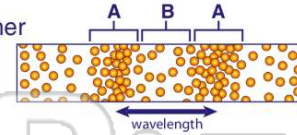
- A** condensation
- B** reflection
- C** compression
- D** rarefaction



(d)

Look at the areas labeled **A** in this diagram of longitudinal sound waves. These areas are called **compressions** because the **particles of the sound waves** are \_\_\_\_\_.

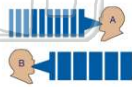
- A** close together
- B** soft
- C** far apart
- D** reflecting



(a)

The diagram below shows sound waves from **two different voices**. What is the difference between these waves?

- A** Sound A is louder than sound B.
- B** Sound B has a higher frequency than sound A.
- C** Sound B is made by a woman.
- D** Sound A has a higher frequency than



(d)

The diagram below shows the **human ear**. What type of **energy conversion** is necessary in the ear for hearing to actually occur?

- A** electrical to chemical
- B** mechanical to chemical
- C** mechanical to electrical



(c)



## PREVIEW

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- A** true
- B** false



- C** frequency
- D** amplitude



Matter's ability to **bounce back** after it is disturbed is called \_\_\_\_\_.

- A** reflection
- B** elasticity
- C** rarefaction
- D** compression

(b)

The phrase "heat lightning" is often used when people see lightning but **do not hear thunder**. What is the explanation for this?

- A** Lightning does not always cause thunder.
- B** Thunder was produced, but the sound was too far away to be heard.
- C** Some thunder frequencies are high above the range of human hearing.
- D** Some thunder frequencies are below the range of human hearing.

(b)