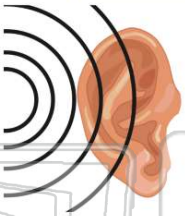
Sound and light energy

Sci E

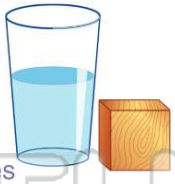
Name _____ Class _____ Date _____

1 **Sound** is a type of energy that travels in **waves** that are caused by _____.



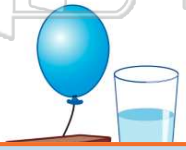
A ears
B frequencies
C decibels
D vibrations

2 Sound cannot travel through a vacuum and needs something in which to travel. Which of the following can sound **travel through**?



A gases only
B solids only
C liquids and gases only
D solids, liquids, and gases

3 Through which material can sound waves travel the **fastest**?



A solids
B liquids
C gases
D none of

4 _____ is the rapid **back-and-forth movement** of an object.

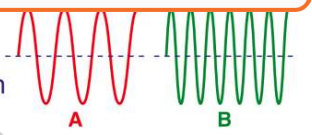
A Decibel
B Frequency
C Vibration

5

7

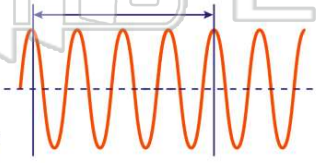
B pitch
C decibel
D vibration

A diagram A
B diagram B
C both diagram A and B
D neither diagram



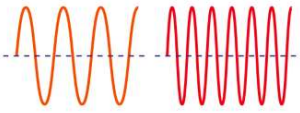
9 The **number of vibrations in a period of time** is called the _____ of a sound wave.

A volume
B pitch
C timing
D frequency



10 Look at the diagram below. This shows that the **slower** the vibration, the **higher** the frequency.

True or false?



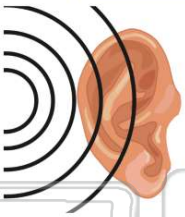
A true
B false

Sound and light energy

Sci E

ANSWER KEY

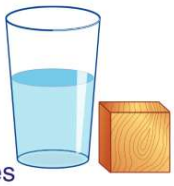
Sound is a type of energy that travels in **waves** that are caused by _____.



A ears
B frequencies
C decibels
D vibrations

d

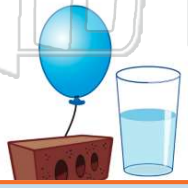
Sound cannot travel through a vacuum and needs something in which to travel. Which of the following can sound **travel through**?



A gases only
B solids only
C liquids and gases only
D solids, liquids, and gases

d

Through which material can sound waves travel the **fastest**?



A solids
B liquids
C gases
D none of the above

a

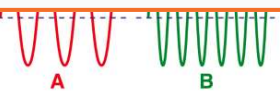
_____ is the rapid **back-and-forth movement** of an object.

A Decibel
B Frequency
C Vibration
D Pitch

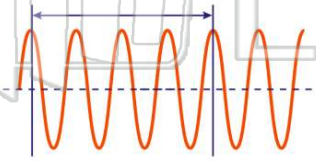
c

C decibel
D vibration

B diagram B
C both diagram A and B
D neither diagram



The **number of vibrations in a period of time** is called the _____ of a sound wave.

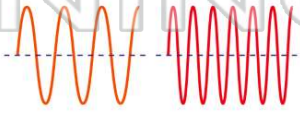


A volume
B pitch
C timing
D frequency

d

Look at the diagram below. This shows that the **slower** the vibration, the **higher** the frequency.

True or false?



A true
B false

b