



Name _____ Class _____ Date _____

- 1 The **loudness of a sound** depends upon which of the following? Circle the answer letter.
- 
- the pitch of the sound & the distance from the sound
 - the humidity in the air & the distance from the sound
 - the energy it took to make the sound & the distance from the sound

- 6 A ship is directing **ultrasound waves** off the **ocean floor**. This ship is using _____. Circle the answer.

radar beeping
GPS sonar



- 7 What **decibel level** might be **harmful to human ears**?

a. 50 decibels
b. 60 decibels

Measuring Loudness	
sound	loudness (dB)
rustling leaves	10
whisper	15-20
very soft music	20-30
normal conversation	40-50
heavy street traffic	60-70
loud music	90-100
rock concert	110-120
	120
	120-160

- 2 This **medical machine** uses **sound waves** to **make images** of what is inside a patient's body. This type of procedure is called a(n) **examination**.



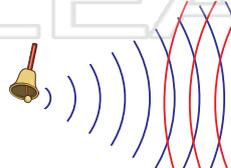
PREVIEW

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- 4 Sound travels in which sound waves travel. What is the overall trend from **slowest to fastest medium**?

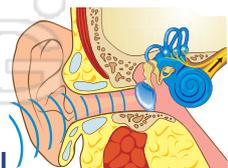
a. solids, liquids, gases
b. gases, liquids, solids
c. liquids, solids, gases

Speed of Sound		
medium		speed
gases	air (0°C)	331
	air (20°C)	343
liquids (30°C)	fresh water	1,509
	salt water	1,546
solids (25°C)	aluminum	5,000
	glass	5,170

- 5 What is it called when **sound waves** that are traveling from opposite directions **meet**?
- 

- 10 What type of **energy conversion** is necessary in the ear for **hearing** to actually occur?

a. electrical to chemical
b. mechanical to electrical
c. electrical to mechanical





Sound - Answer Key

Name _____ Class _____ Date _____

- 1 The **loudness of a sound** depends upon which of the following?
Circle the answer letter.
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- b. the humidity in the air & the distance from the sound
- c.** the energy it took to make the sound & the distance from the sound
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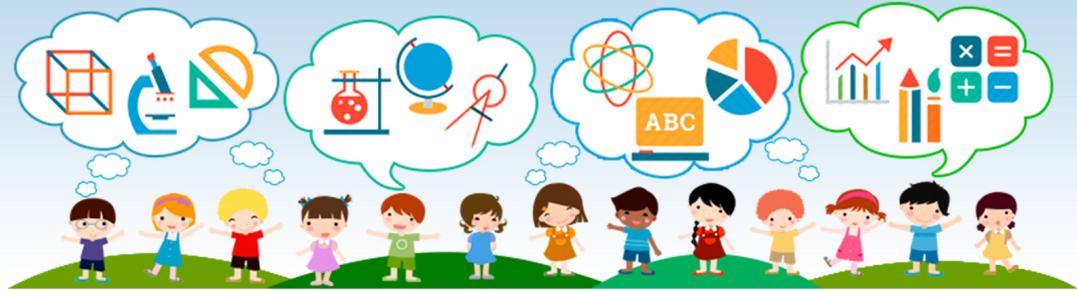
- 6 A ship is directing **ultrasound waves** off the **ocean floor**. This ship is using _____. Circle the answer.
- radar beeping
- GPS **sonar**
- 

- 2 This **medical machine** uses **sound waves** to **make images** of what is inside a patient's body. This type of procedure is called a(n) _____ examination.

- 7 What **decibel level** might be **harmful to human ears**?
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3

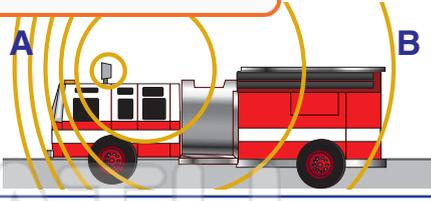


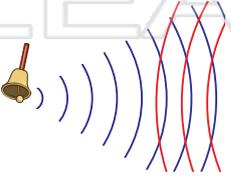
PREVIEW

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- 4 Sound travels in which sound waves travel. What is the overall trend from **slowest to fastest medium**?
- a. solids, liquids, gases
- b.** gases, liquids, solids
- c. liquids, solids, gases
- | Speed of Sound | | |
|----------------|-------------|-------|
| medium | | speed |
| gases | air (0°C) | 331 |
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| liquids (30°C) | fresh water | 1,509 |
| | salt water | 1,546 |
| solids (25°C) | aluminum | 5,000 |
| | glass | 5,170 |

the Doppler effect



- 5 What is it called when **sound waves** that are traveling from opposite directions **meet**?
- interference**
- 

- 10 What type of **energy conversion** is necessary in the ear for **hearing** to actually occur?
- a. electrical to chemical
- b.** mechanical to electrical
- c. electrical to mechanical
- 