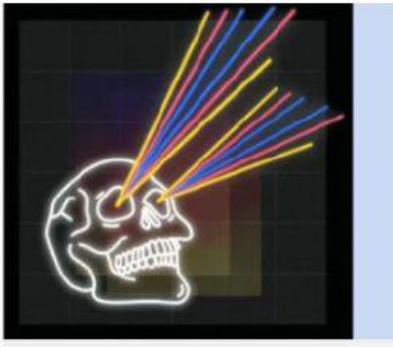


Light Waves vs Sound Waves



Part 1. Directions: Choose the correct answer.

1. Electromagnetic Waves:
Light
Sound
2. Mechanical Waves:
Light
Sound
3. Which waves travel faster?
Light
Sound
4. Which waves require a medium to travel?
Light
Sound
5. True or False... Sound waves can travel through a vacuum.
True
False
6. True or False... During a thunderstorm, what happens first?
You hear thunder and then see the lightning strike.
You see lightning strike and then hear thunder.
7. What type of medium do sound waves travel fastest through?
Solid

Liquid

Gas

8. Which one of the following is considered a medium?

Solid

Liquid

Gas

All of the above

WORD BANK

molecules	bend	Change speed
diamonds	media	friction

Part 2. Directions: Fill in the blank. Drag and Drop Activity

1. Speed of both light and sound is affected by different_____.
2. Sound waves travel more quickly in a solid because the _____ are closely packed together.
3. Light travels faster than sound because there isn't any _____ that would cause the electromagnetic waves to slow down.
4. Light travels slowest through _____.
5. As light waves enter the diamond, changing from one medium to another, they reflect which means they _____ and _____.

