

# Sound Worksheet

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1. True or False: Sound is a form of energy.
2. What are the vibrations in the air around an object called?
3. True or False: Sound travels through vibrating air particles.

4. How do humans hear sound?

Put in order from 1 to 6 how sound reaches our brains.

- Sound waves enter the ear drum
- Sound waves cause the eardrum to vibrate
- The eardrum makes tiny bones in the ear move
- Tiny bones send sound to the cochlea
- In the cochlea sound makes tiny hairs bend
- Bending hairs cause nerves to send signals to the brain

5. Why does sound travel faster through solids and liquids than through air?

6. Why is there no sound in space?

7. What are some ways people absorb sound?

8. What is an echo?

9. What types of animals use echo to navigate and hunt?

10. How do humans use echolocation?

11. Explain sound waves in your own word.

12. What is amplitude?

13. Fill in the blanks:

Loud sounds have \_\_\_\_\_ amplitude. Soft sounds have \_\_\_\_\_ amplitude.

14. What makes sound high or low?

15. Fill in the blanks:

The \_\_\_\_\_ an object vibrates, the \_\_\_\_\_ its frequency.

High pitched sounds have a \_\_\_\_\_ frequency than low pitched sounds.

16. Give an example of a high pitched sound and a low pitched sound.

17. How do hearing aids help people?