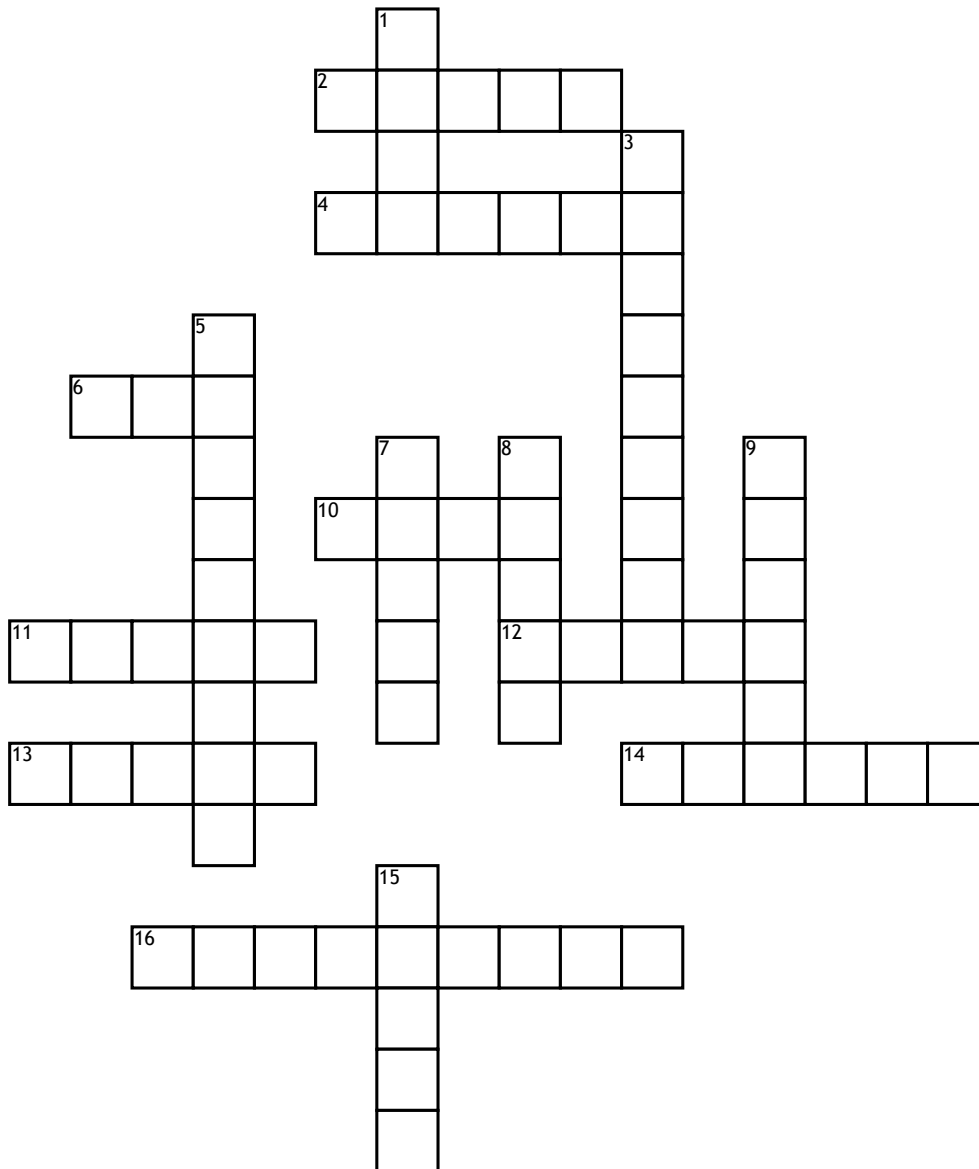


# Sound Science



## Across

2. True or false, you can hear sound in space?

4. Sound waves must have a \_\_\_\_\_ in which to travel.

6. Sound cannot be heard in the absence of \_\_\_\_.

10. Higher frequency results in a higher musical \_\_\_\_\_.

11. Wave \_\_\_\_\_ is measured in meters per second.

12. Sound waves \_\_\_\_\_ up when moving from air to water, but their frequency remains constant.

13. \_\_\_\_\_ is another word for a musical note.

14. String telephones work because \_\_\_\_\_ is denser than air and the string and cup focus the sound waves in one direction.

16. The movement sound creates on an object is called \_\_\_\_\_.

## Down

1. Amplitude, frequency, and length are characteristics of a \_\_\_\_\_.

3. The height of a wave is called its \_\_\_\_\_.

5. The \_\_\_\_\_ of a wave is the number of waves passing a point in a certain period of time.

7. Sound generally travels most efficiently in liquid or solid?

8. Sound generally travels more efficiently in \_\_\_\_\_ materials rather than non-dense materials.

9. As the amplitude of a sound wave increases, the sound becomes \_\_\_\_\_.

15. In which medium does sound travel more efficiently - air or water?