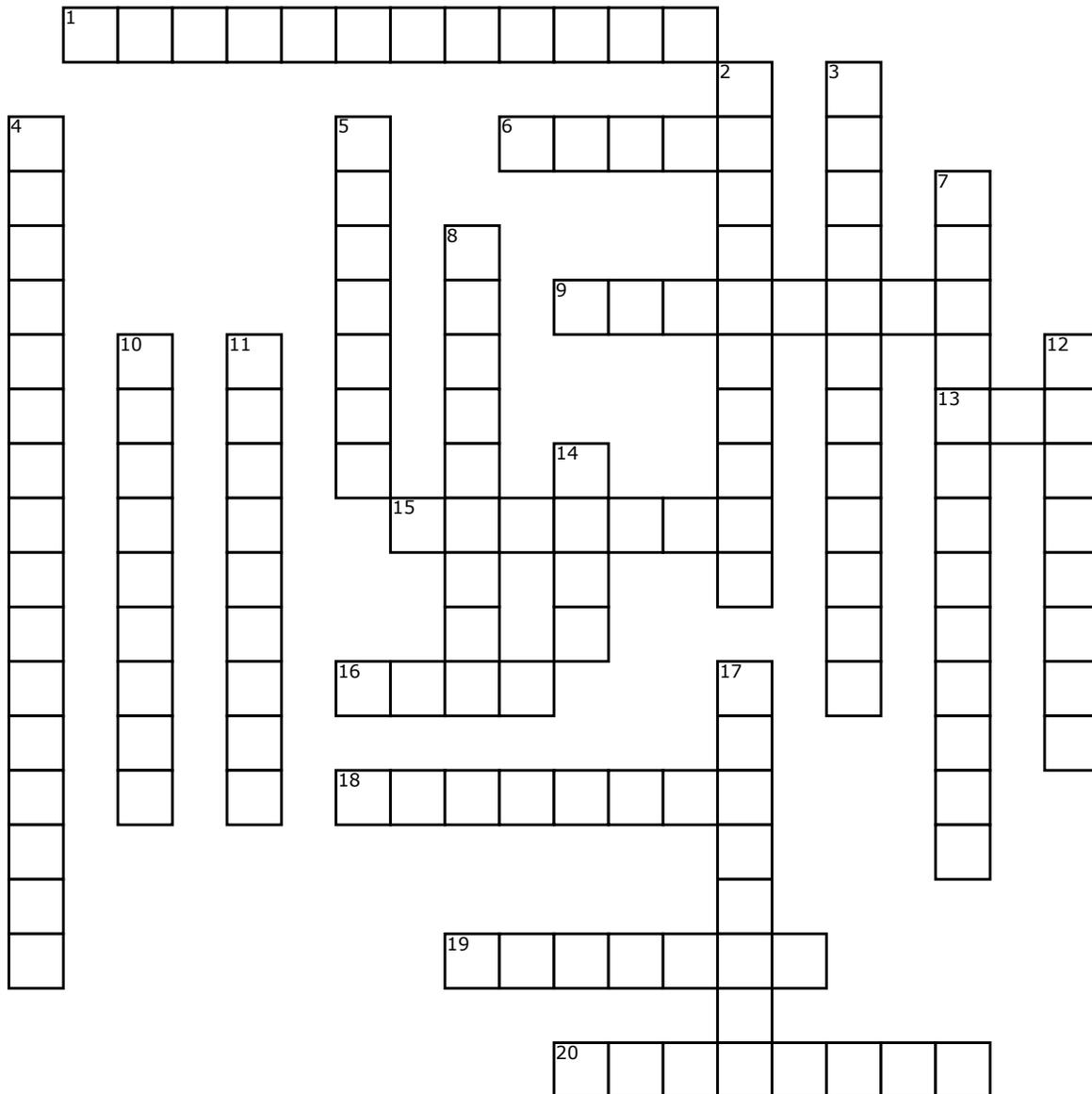


# Atomic Structure



## **Across**

1. Electrons and protons are the same thing as the \_\_\_\_\_
6. The second shell can hold up to how many electrons?
9. If an electron is gained, the charge becomes \_\_\_\_\_
13. The 1st shell can hold up to how many electrons?
15. The atomic number tells me the number of \_\_\_\_\_
16. The \_\_\_\_\_ number of an element is the total number of protons and electrons
18. An electron carries a \_\_\_\_\_ charge?

19. A \_\_\_\_\_ has a neutral charge

20. It is \_\_\_\_\_ for an atom to lose or gain electrons

## **Down**

2. The number at the bottom of an element is the \_\_\_\_\_
3. This determines an element's identity
4. The electrons in the outermost shell are called \_\_\_\_\_
5. What is most of the volume of an atom occupied by?
7. The space outside the nucleus where negatively charged particles are found

8. \_\_\_\_\_ has the mass of zero

10. The atomic number and the protons are the same thing as \_\_\_\_\_

11. The atomic number can also tell me the number of \_\_\_\_\_

12. A proton carries a \_\_\_\_\_ charge?

14. The smallest part of an element

17. If I subtract either the protons or electrons from the atomic mass I would get \_\_\_\_\_