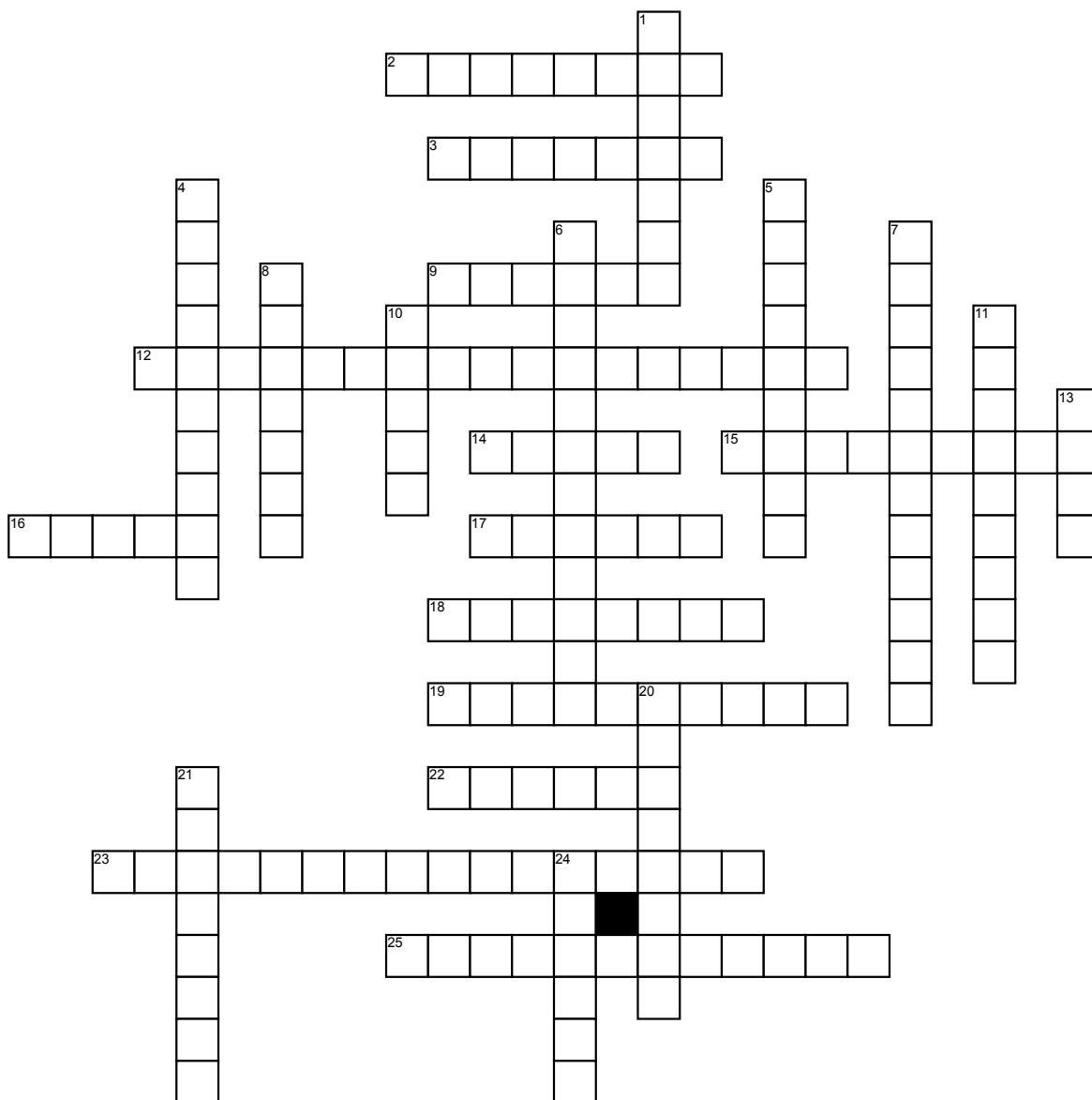


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Chemistry Crossword Puzzle



## **Across**

2. unshared electrons  
 3. the mass of an object divided by its volume  
 9. a pair of equal and opposite charges separated by a distance  
 12. the ability of an atom that is bonded to another atom to attract electrons to itself  
 14. valence shell electron pair repulsion  
 15. number that appears slightly below the line  
 16. a negatively charged ion  
 17. a positively charged ion  
 18. Group 17

19. the average energy needed to break a given type of bond

22. positive charged particle in nucleus  
 23. outer shell electrons  
 25. the force that holds two atoms together

## **Down**

1. matter containing two or more substances  
 4. a covalent bond in which two pairs of electrons are shared  
 5. each atom except hydrogen should have 8 electrons around it  
 6. the chemical bond that results from the sharing of valence electrons

7. the number of protons in the nucleus of an atom

8. the central part of an atom  
 10. unequal sharing of electrons  
 11. the electrostatic force that holds oppositely charged particles together in an ionic compound  
 13. the smallest particle of an element that can enter into a chemical reaction  
 20. equal sharing of electrons  
 21. a \_\_\_\_\_ is formed when two or more atoms bond covalently  
 24. a covalent bond in which three pairs of electrons are shared