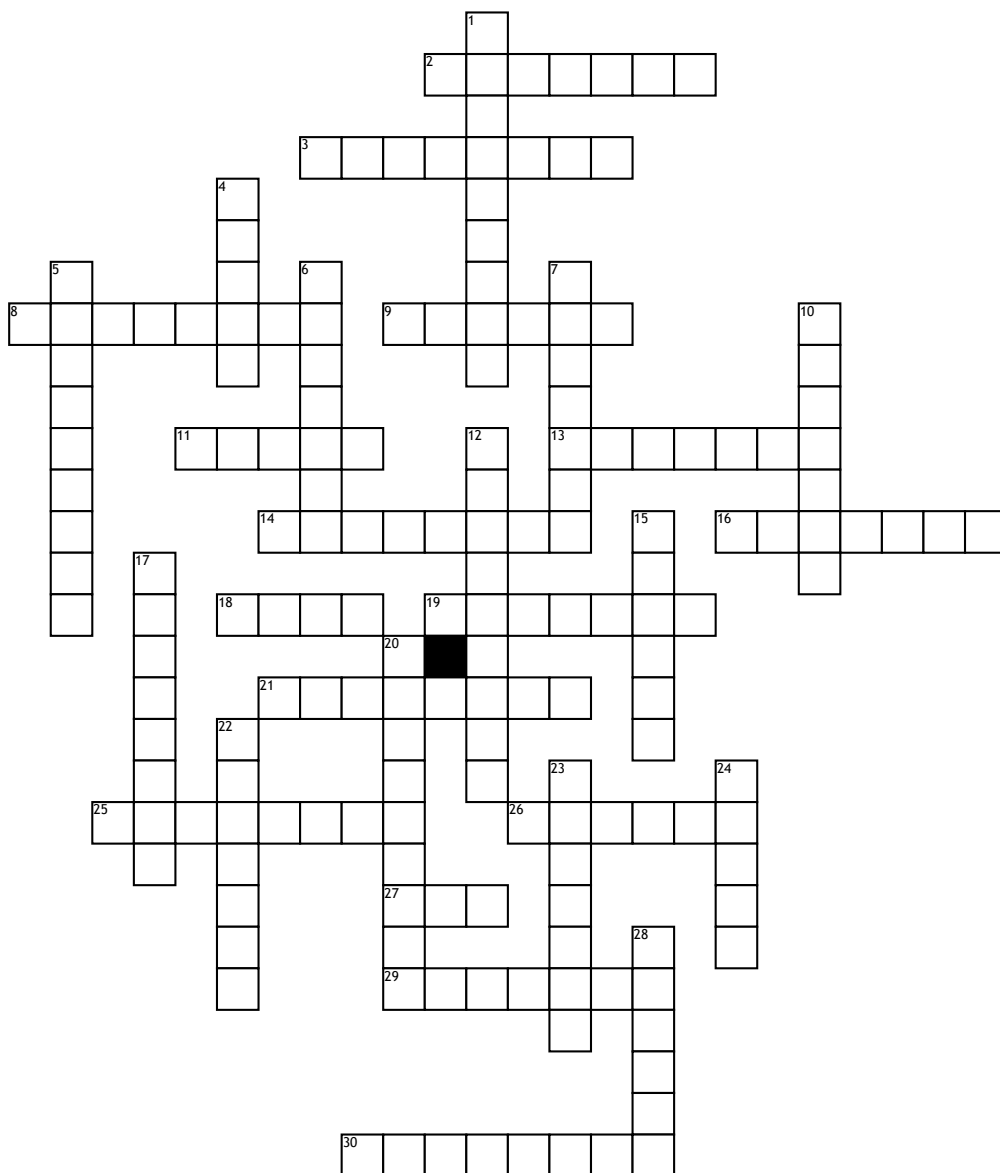


Name: \_\_\_\_\_ Date: \_\_\_\_\_

# MATTER AND MATERIALS



## Across

2. The electron that can be lost, gained, shared or transferred
3. This is a bond between non metals only
8. This element has 9 electrons when neutral
9. This noble gas has only one period
11. This tells us how many electrons are in the outermost orbital.
13. A pure substance
14. A non metal found in group one.
16. A metalloid that is found with 4 valence electrons
18. Au
19. This is a subatomic particle that has no charge
21. A Halogen with 17 protons
25. A pleasant sound when tapped

26. This element can be found in period 6 Group 11
27. An atom with a charge
29. Different substances put together without a bond
30. 2 or more elements chemically bonded in a fixed ratio

## Down

1. Can be bent without breaking or cracking
4. This is a bond between a non metal and a metal
5. This element has 13 electrons when neutral.
6. The only metal that is a liquid at room temperature.
7. the collective name for the subatomic particles in the nucleus

10. This is when something can be pulled into long wires
12. This element is in period 3 Group 2
15. A subatomic particle that has a positive charge
17. The subatomic particle with a negative charge
20. This element has 19 protons
22. A liquid Halogen
23. This element has 3 protons
24. A noble gas in period 3
28. This tells us how many orbitals in an atom