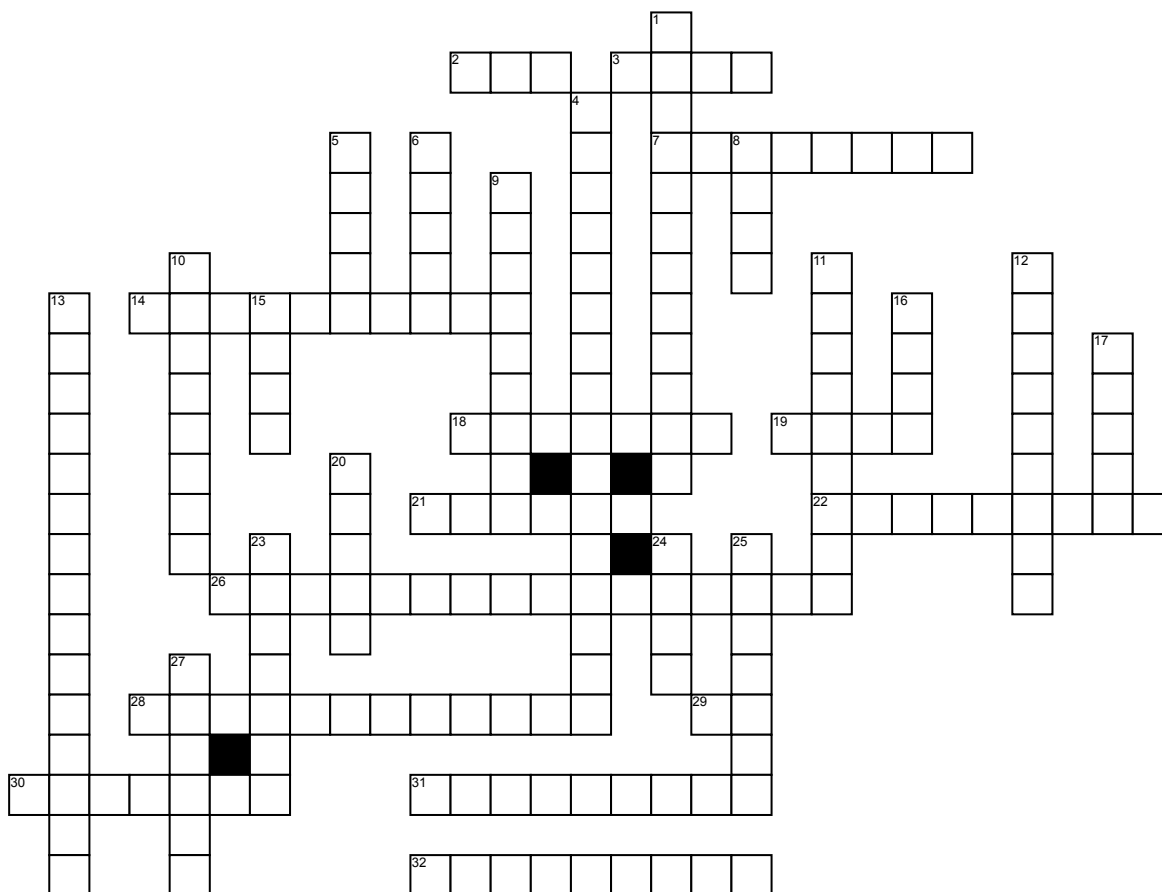


Name: _____

ionic, convalent, and metallic bond



Across

2. This prefix is 3
 3. An atom with a charge
 7. NH_4^+
 14. Includes symbol of an element surrounded by dots and each dot represents 1 valence electron
 18. Positive ions
 19. This prefix is 9
 21. Another name for shiny
 22. Attraction between oppositely charged ions
 26. 2 identical atoms bonded together with a covalent bond
 28. When metal atoms combine they lose their electrons and became positively charged ions and the valence electrons become part of a "sea" of electrons and both the positively charged metal ion and the sea of electrons is a...

29. This prefix is 2

30. SO_4^{2-}

31. CO_3^{2-}

32. PO_4^{3-}

Down

1. A bond which electrons are shared between atoms
 4. An ionic compound's property, because the particles are in a repeating pattern is a..
 5. This prefix is 4
 6. When atoms share the electrons unequally the bond is...
 8. This prefix is 1
 9. Gains electrons to become negative ions
 10. When atoms share the electrons in a covalent bond equally, the bond is...
 11. OH^-

12. The ability (for a metal) to bend or hammered into a shape without breaking
 13. Symbols that show the makeup of the compound
 15. This prefix is 10
 16. This prefix is 8
 17. An atom with a negative charge
 20. This prefix is 5
 23. NO_3^-
 24. This prefix is 6
 25. The ability (for a metal) to be drawn into a thin wire
 27. Lose electrons and become positive ions