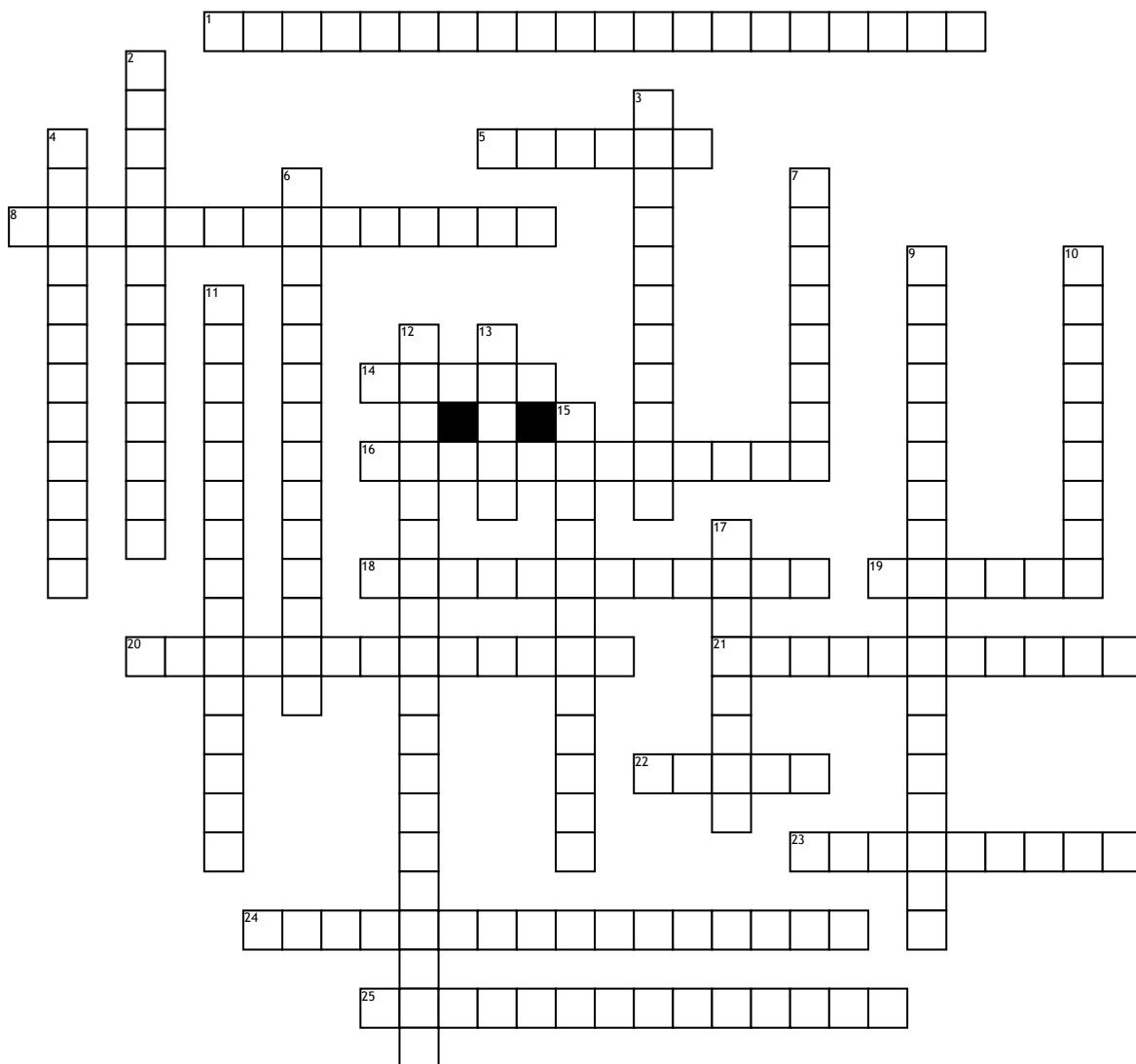


Name: _____

Date: _____

Bonding



Across

1. electrons present in outer energy levels of bonding metallic atoms and can easily move
5. positively charged ion
8. represents the arrangement of electrons in a molecule; - or • between elements
14. negatively charged ion
16. one atom ion
18. attraction of a metallic cation for delocalized electrons
19. formed by parallel orbitals overlapped and share electrons
20. ionic bonds joined together create this compound
21. ionic compound whose aqueous solution conducts an electric current

22. mixture of elements with metallic properties

23. electrostatic force that holds oppositely charged particles together in an ionic compound

24. proposes all metal atoms in a metallic solid contribute to their valence electrons to form a "sea of electrons"

25. ions made up of more than one atom

Down

2. energy required to separate 1 mol of the ions of an ionic compound

3. chemical formula for an ionic compound

4. force that holds two atoms together

6. 3D geometric arrangement of particles

7. polyatomic ion composed of an element bonded to one or more oxygen atoms

9. occurs when more energy is released during product bond formation than is required to break bonds in the reactants

10. single covalent bonds

11. charge of a monatomic ion

12. occurs when greater energy is required to break existing bonds in reactants than is released when new bonds form in the products

13. uneven distribution of charge
15. chemical bond formed by sharing valence electrons

17. formed by two or more covalent you bonded atoms