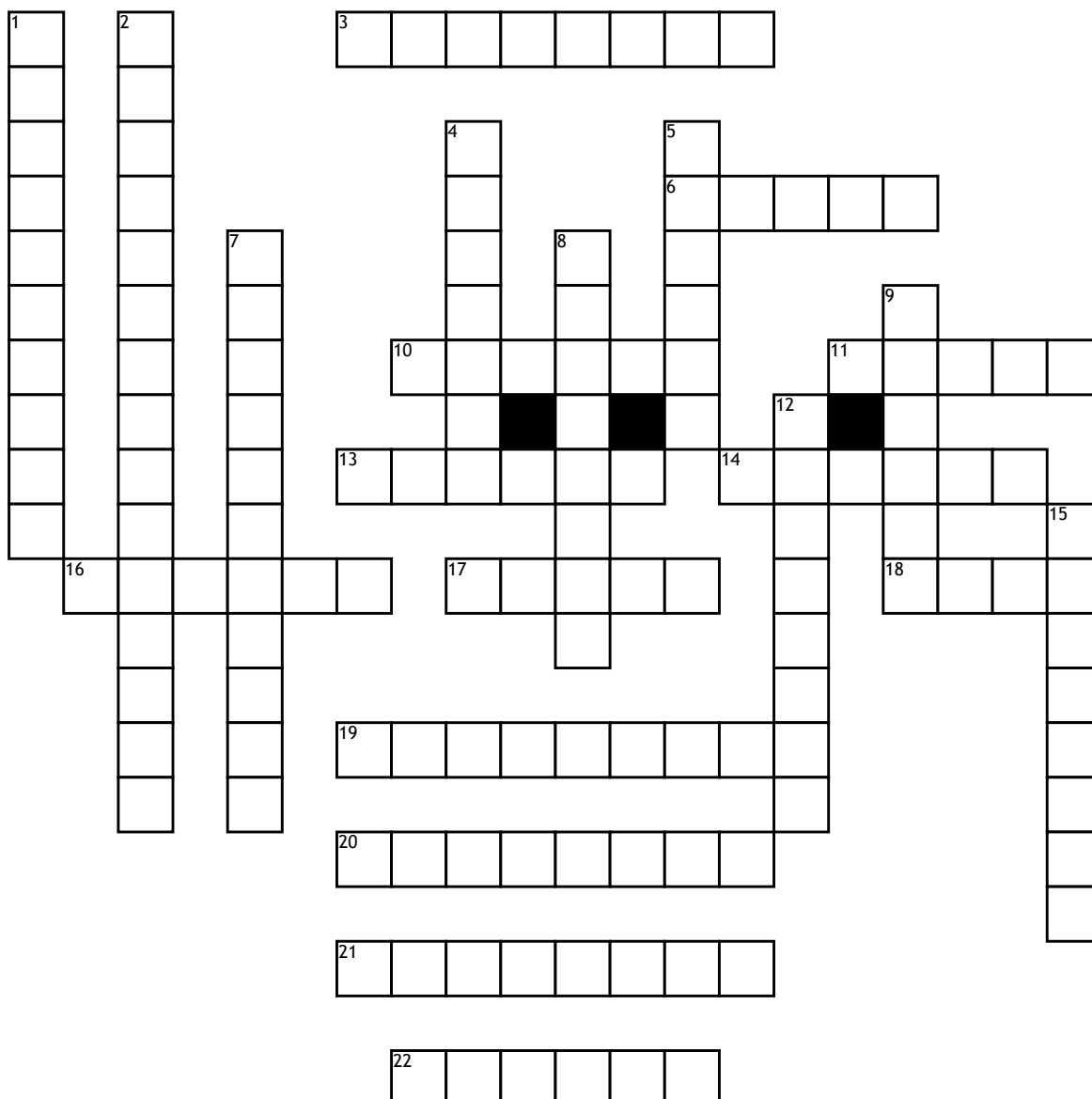


Chemical Bonding Crossword



Across

3. a valuable element
 6. A type of bonding in which electrons are transferred from one atom to another
 10. a metallic property that describes how shiny the metal is
 11. He said the two electrons in an orbital must have opposite spins
 13. eight electrons in an atoms valence makes the atom ____.
 14. a vertical grouping of elements on the periodic table
 16. In an ionic bond, these are always losers
 17. a negative ion

18. sodium chloride

19. the ability to reproduce an accurate measurement
 20. the smallest particle of a covalently formed compound
 21. a type of bonding in which electrons are shared between atoms
 22. a horizontal grouping of elements on the periodic table

Down

1. He said we cannot know both the speed and location of an electron at the same time
 2. This quantum number tells us which sublevel an electron is in (two words)

4. a shorthand means of describing a chemical compound using symbols and subscripts
 5. A type of ionic compound that contains two elements
 7. (two words) the smallest grouping of ions in an ionic compound that has the correct ratio of elements
 8. a type of bond that holds metals together by the formation of a common electron cloud of free electrons
 9. A positive ion
 12. "salt forming" elements
 15. the most chemically active nonmetal