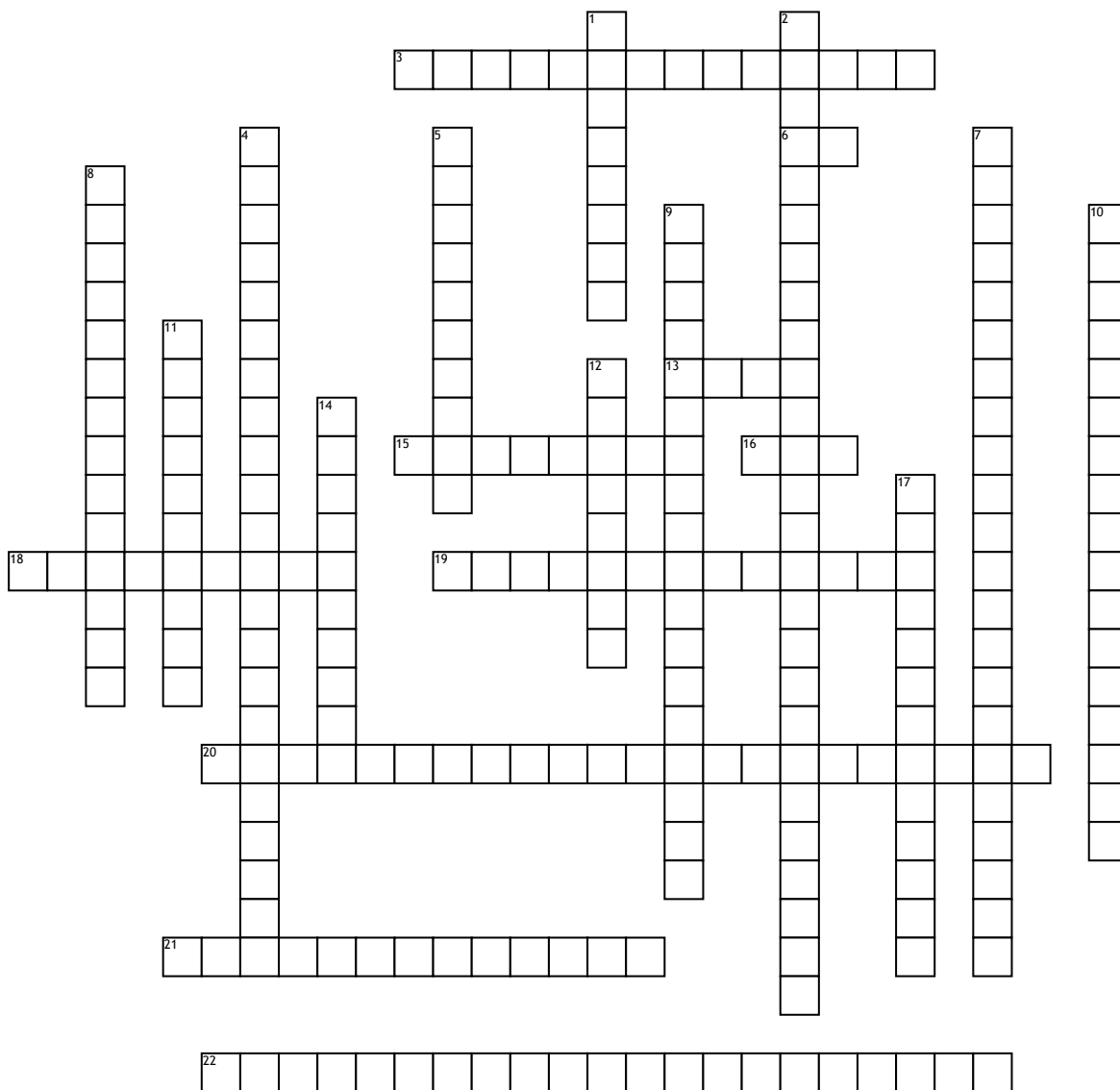


Name: _____

Date: _____

Acids and base



Across

3. States that an acid is a substance that contains hydrogen and ionizes to produce hydrogen ions in aqueous solution

6. The negative logarithm of the hydrogen ion concentration of a solution; acidic solutions have pH values between 0 and 7, basic solutions have values between 7 and 14, and neutral solutions have a value of 7.

13. An ionic compound made up of a cation from a base and an anion from an acid

15. A base that ionizes only partially in dilute aqueous solution to form the conjugate acid of the base and hydroxide ions

16. The negative logarithm of the hydroxide ion concentration; a solution with a pOH above 7.0 is acidic, a solution with a pOH below 7.0 is basic, and a solution with a pOH of 7.0 is neutral.

18. The process in which an acid-base neutralization reaction is used to determine the concentration of a solution of unknown concentration

19. Contains more hydroxide ions than hydrogen ions

20. The value of the equilibrium constant expression for the ionization of a base

21. The species produced when a base accepts a hydrogen ion

22. Consists of 2 substances related to each other by the donating and accepting of a single hydrogen ion

Down

1. The point at which the indicator used in a titration changes color

2. The value of the equilibrium constant expression for the self-ionization of water

4. A reaction in which an acid and a base in an aqueous solution reacts to produce a salt and water.

5. A Lewis acid is an electron-pair acceptor and a Lewis base is an electron-pair donor

7. The value of the equilibrium constant expression for the ionization of a weak acid

8. Contains more hydrogen ions than hydroxide ions

9. A model of acids and bases in which an acid is a hydrogen-ion donor and a base is a hydrogen-ion acceptor

10. Chemical dyes whose colors are affected by acidic and basic solutions

11. An acid that ionizes completely

12. An acid that only partially ionizes in dilute aqueous solution

14. A base that dissociates entirely into metal ions and hydroxide ions

17. The species produced when an acid accepts a hydrogen ion