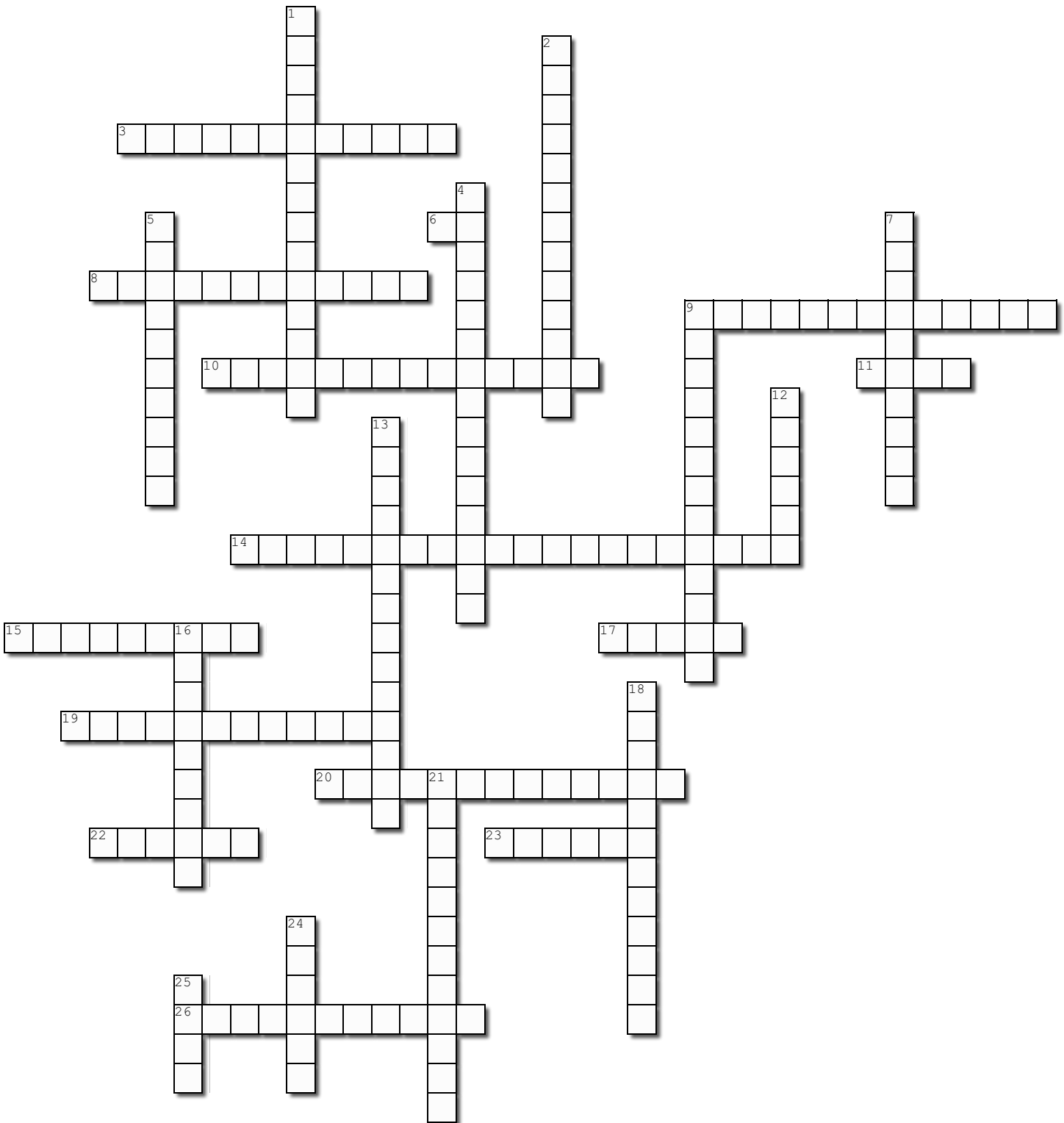


Name: _____

Chemistry Chapter 17 and 19 Vocabulary Crossword Puzzle

Complete the crossword puzzle below.



Across

3. contains two ionizable hydrogens
6. the negative logarithm of the hydrogen ion concentration
8. when a substance changes from a liquid to a gas
9. the particle that remains when an acid has donated a hydrogen ion
10. contains one ionizable hydrogen
11. energy that transfers from one object to another because of a temperature difference
14. the law of _____ states that in any chemical or physical process, energy is neither created nor destroyed
15. _____ acids and bases are defined by the production of H^+ and OH^- particles in solution
17. _____ acids and bases are defined as electron pair acceptors and donors
19. the amount of heat it takes to raise the temperature of 1 g of a substance 1 degree Celcius
20. _____ acids and bases are defined as proton donors and acceptors
22. a _____ acid/base fully breaks into ions in solution
23. when a substance changes from a solid to a liquid, another term for melting
26. a process that absorbs heat from the surroundings

Down

1. the reaction in which water molecules produce ions
2. contains three ionizable hydrogens
4. the study of energy changes that occur during chemical reactions and changes of state
5. a substance that can act as both an acid and a base
7. a process that releases heat to its surroundings
9. the particle formed when a base gains a hydrogen ion
12. the capacity of doing work or supplying heat
13. reactions in which an acid and a base react in an aqueous solution
16. a substance that changes color as the pH changes
18. H_3O^+
21. everything else in the universe that is not part of the system
24. the part of the universe on which you focus your attention
25. a _____ acid/base only partially breaks into ion in solution