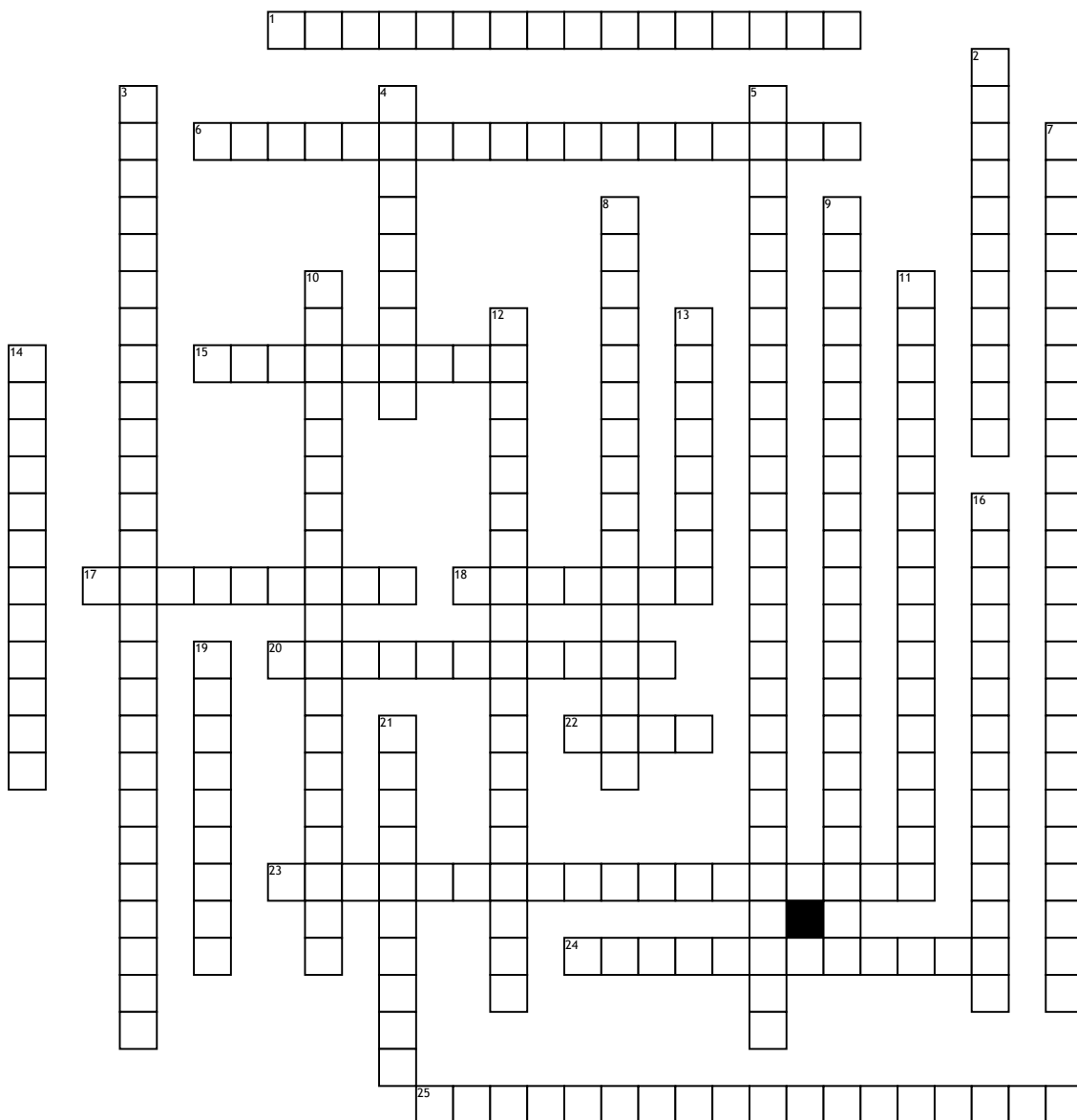


Name: _____

Date: _____

Chemical Reactions



Across

1. a change in which one or more substances change into new substance(s)
6. when thermal energy is given off during a chemical reaction
15. the loss of electrons
17. to gain electrons
18. the new substances produced in a chemical reaction
20. an insoluble compound that comes out of a solution during a chemical reaction
22. SI unit for quantity that equals 6.022×10^{23} of that substance.
23. when a substance reacts with oxygen to produce energy in the form of heat or light
24. the rate at which reaction turn into products

25. chemical reactions that release energy

Down

2. a state of balance, in which forward and reverse processes occur at equal rates
3. when the positive ion of one compound replaces the positive ion of another to create 2 new compounds
4. the starting substances that react
5. the chemical reaction in which one element replaces another element
7. when an equation has the same of of atoms of an element on each side of the arrow
8. a shorthand method to describe a chemical reaction

9. when when substance breaks down to form or decomposes into 2 or more substances

10. energy absorbed during a chemical reaction usually in the form of thermal energy, light or electricity
11. two or more substances combine to form another substance
12. chemical reaction that requires thermal energy in order to proceed
13. substance used to speed up a chemical reaction
14. represent the number of units of each substance taking part in a reaction
16. states that ions, atoms, and moles must collide in order to react
19. the mass in grams of 1 mole of a substance
21. substances used to slow down chemical reactions