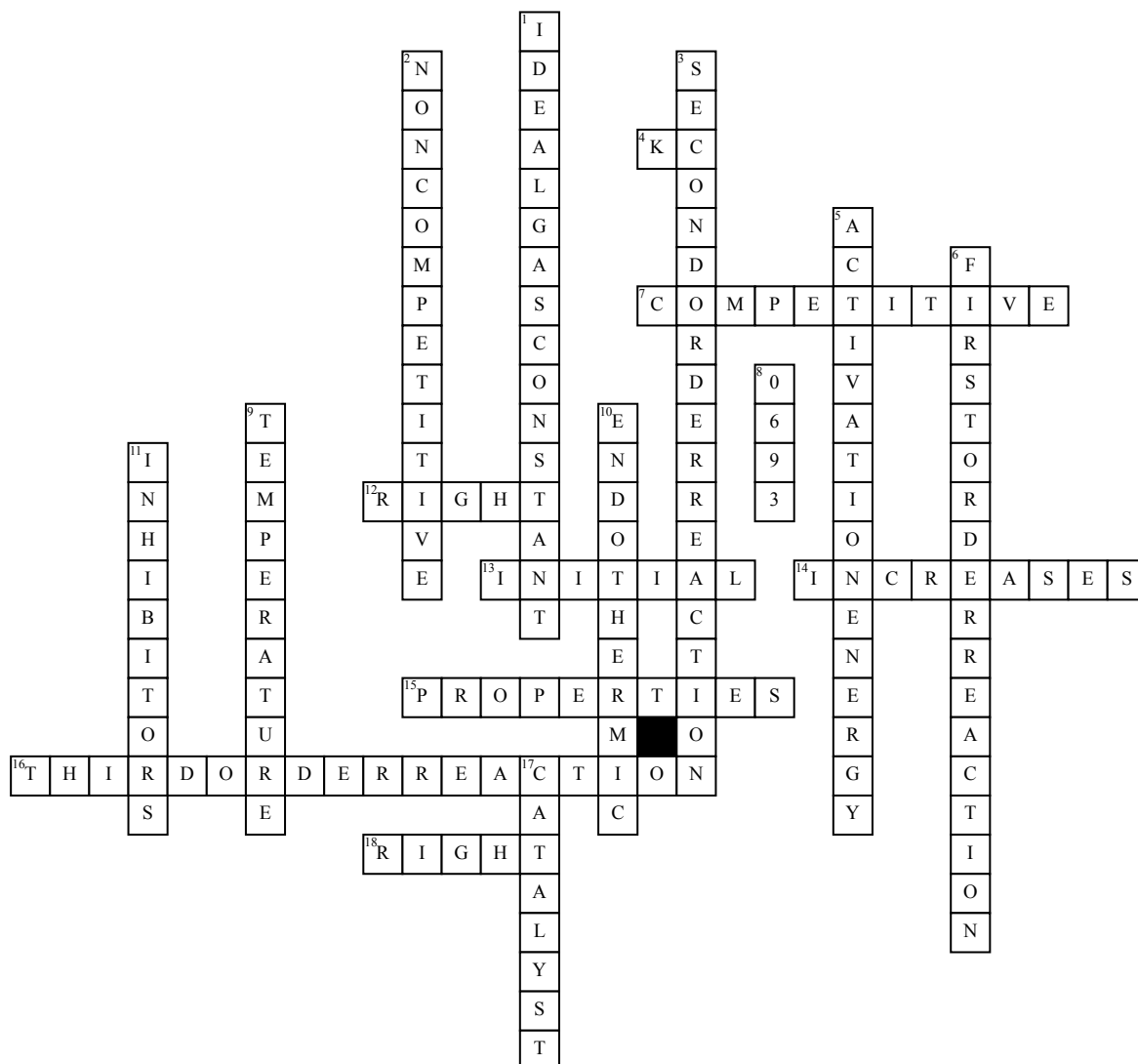Name: _____ Date: _____

Chemical Equilibrium and Chemical Kinetics Crossword Puzzle

Across
4. The equilibrium constant in chemical equilibrium that is based on the concentration
7. inhibitor that competes for active site
12. If the product in the rx. N2 + 3H2 <====> 2NH3 is removed, which side will equilibrium shift?
13. the concentration of A is final minus _____
14. In a reaction rate if the temperature increases then the rate _____

15. a homogeneous factor affecting rx. rate (includes polarity and size)
16. A+B+C====>D
18. In the reaction 2NO + O2 <===> 2NO2, if pressure is increased which side will it shift to?

Down
1. In the formula Kp=Kc (RT)^change in "n", what does R stand for?
2. inhibitors that deforms enzyme's active site
3. A+B===>C

5. In the formula ln(K2/K1) = Ea/R (1/T1 - 1/T2), Ea stands for _____ _____
6. A ==> B+C
8. If K is known for a first order half life rx. then t 1/2= _____/k
9. the rate is equal to the concentration of A over the change in _____
10. The increase in temperature will cause a reaction to shift to the _____ side
11. These enzymes bind to allosteric site
17. An enzyme that increases in rate without being consumed