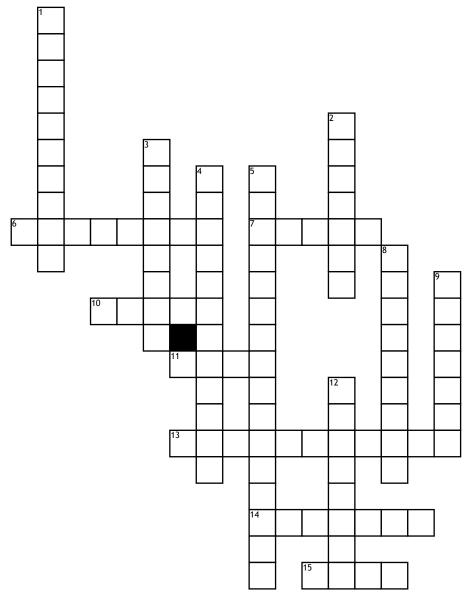
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Chemical Kinetics and Chemical Equilibrium



Across

- **6.** When the container volume is increased, the system will shift to _____ its volume.
- **7.** The reaction A + 2B --> C is a _____ order reaction.
- **10.** The unit for k in a first order reaction
- **11.** This is constant in zero order reactions
- **13.** Properties, concentration, temperature, and catalysts are examples of factors that affect _____ reactions.

- **14.** Pure solids and ____ are left out of an equilibrium constant expression.
- **15.** For the reaction NH4Cl (aq) --> NH3(g) + HCl(g), the equation will shift ___ when pressure is increased.

Down

- 1. How the exponents in a rate law equation are determined
- 2. For the equation N2(g) + 2O2 (g) --> 2NO2(g), the concentration of NO2 is _____
- **3.** This speeds up a reaction without being consumed

- **4.** "p" is known as this in the Arrhenius equation
- **5.** This acts as a intermediary between the reactants and products in a reaction
- **8.** This prevents a substrate from the action of an enzyme
- **9.** For Kc=[A][B]^2, if A is halfed and B is doubled, the value of Kc
- **12.** This happens to an enzyme if the temperature goes above or below the temperature range