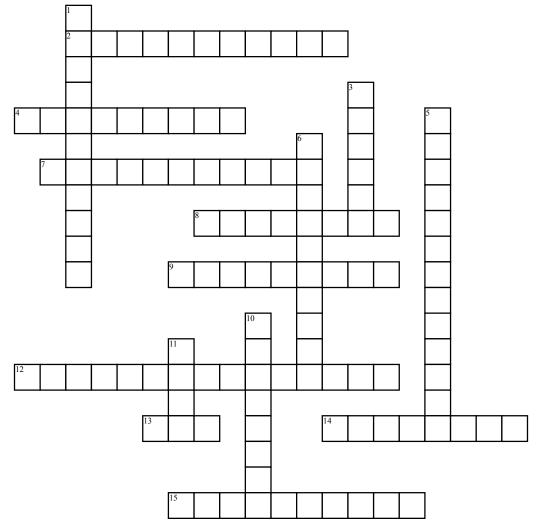
Equilibrium and Reaction Rates



Across

- 2. absorbs heat
- **4.** are used to form products
- 7. increasing this will increase the kinetic energy in a reaction rate
- **8.** an ____ in temperature will cause a shift to the right because the temperature is on the left
- **9.** add more reactant or product the equlibrium will shift to the ____ side
- **12.** atoms, ions, and molecules must collide in order to react

- 13. only includes gases and aqueous
- **14.** helped us learn about chemistry this year
- 15. releases heat

Down

- 1. developed a principle that states if you change the conditions the equilibrium will shift to the opposite side to make more reactant or product
- **3.** used to show that products are formed
- **5.** the more ____ the faster the reaction

- **6.** a _____ reaction is a chemical reaction that can occur in both the forward and reverse directions
- **10.** increases the rate of a chemical reaction by reducing the activation energy
- 11. ____ known factors affect the reaction rate (how many)

Word Bank

reactants exothermic concentration mclendon endothermic reversible increase collision theory Arrows catalyst

Temperature Keq five oopposite le chatelier