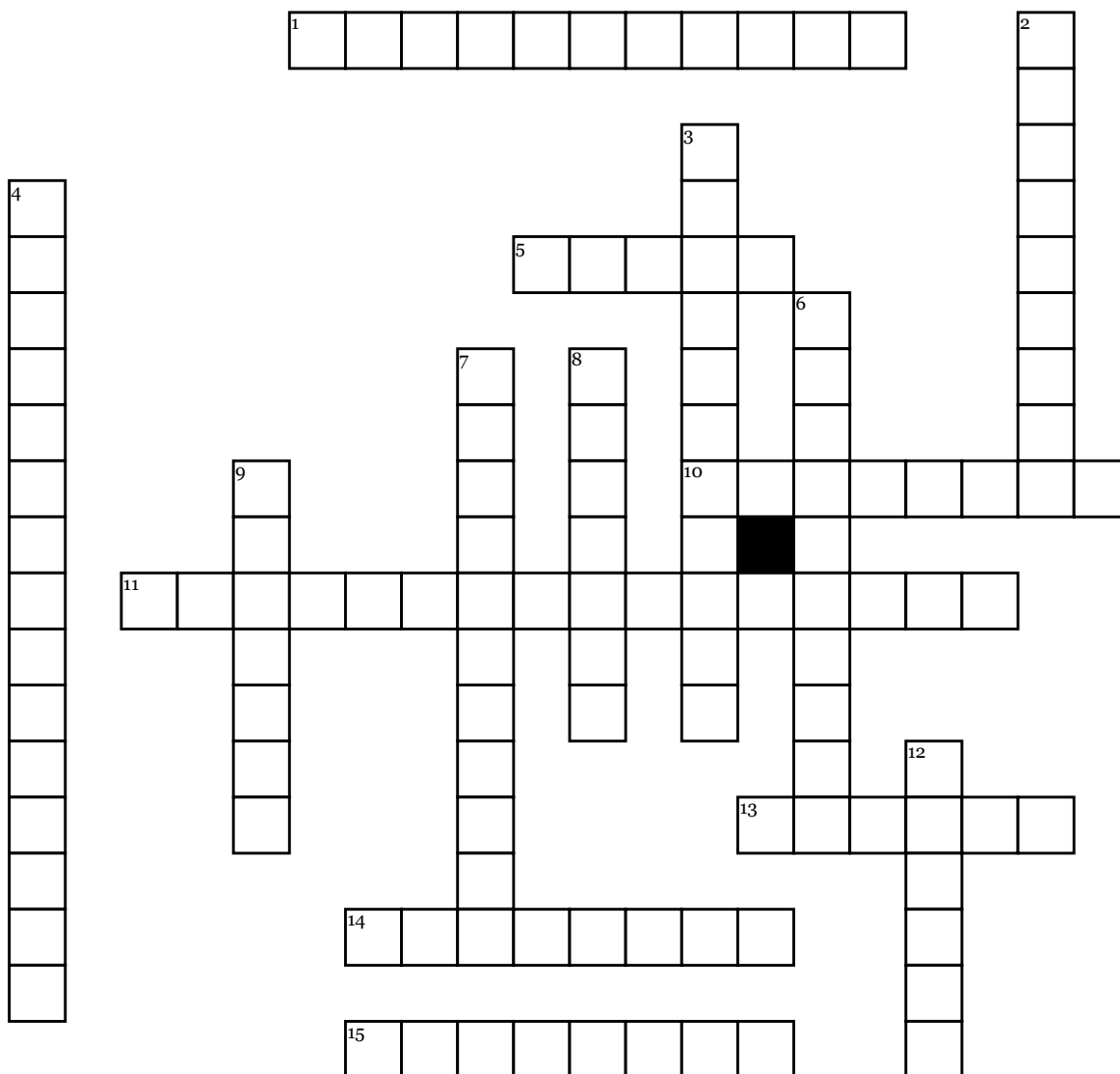


Rate and Equilibrium Review



Across

1. The state in which the forward and reverse reactions balance

5. Another substance included in equilibrium equations and written as (g)

10. A substance that increases the rate of a chemical reaction without being consumed

11. A catalyst reduces the _____ during the reaction

13. Equilibrium is a state of _____

14. A _____ in temperature will shift the equilibrium to the same side where the temperature is located

15. An increase in concentration will shift the equilibrium to the _____ side

Down

2. To determine the overall order for the reaction, you must add the _____

3. The _____ indicates the number of moles in the equation

4. Atoms, ions, and molecules must collide in order to react

6. Released heat (feels hot)

7. Absorbed heat (feels cool)

8. Substances that are included in equilibrium equations and are written as (ag)

9. The relationship between the concentration of the reactants and the rate of reaction

12. The greater the surface area, the _____ the chance is of molecules colliding