

4. As the container is opened, observe the amount of bubbling. Write your observation below:
5. When the container is opened, does the pressure increase or decrease?
6. Which direction does the reaction shift when the container is opened?

Procedure B

1. Pour about 50ml of the club soda into a small beaker.
2. Add 30-40 drops of universal indicator to your club soda.
3. What is the color of the solution right now?
4. Place the beaker on a hot plate and heat it for approximately 3 to 5 minutes. What do you observe?
5. Which direction does the reaction shift when the temperature is raised?

Procedure C

1. Remove your beaker from the hot plate.
2. Add a piece of dry ice (frozen CO_2) to the beaker. What happens immediately?
3. Allow the dry ice to bubble through the solution until no further color change is noticed. What color is the final solution?
4. As it bubbles through solution, the dry ice increases the concentration of what substance in the solution?
5. Which direction has the equilibrium shifted?

Conclusion

Write a short paragraph summarizing how a change in pressure, temperature, and concentration will affect a shift in equilibrium.