Diffusion **Name(s)**_____

A. Diffusion in a water drop

1. Describe the crystals before and after they are placed together as solids. Is there any evidence of a reaction?

2. Record your observations upon adding a drop of water to the mixture of the two solids.

3. Do the particles have more freedom to move in solution (dissolved in water) or in solid form? What is your evidence?

4. Describe the appearance of potassium iodide crystals dissolved in water:

5. Describe the appearance of lead nitrate crystals dissolved in water:

6. What happens when the lead nitrate is added first?

7. What happens when potassium iodide is added first?

8. Does diffusion take place in this part of the lab? What is your evidence?

Diffusion **Name(s)**_____

B. Diffusion in air

1. Describe the appearance of the drops before putting the lid on the dish

2. Does a chemical reaction take place at any time? What evidence do you have?

3. Does diffusion take place in this part of the lab? What is your evidence?

4. Compare the rate of diffusion of ions in solid crystals to the rate of diffusion of ions in solution.