

Name: _____ Homeroom: _____

Diffusion/Osmosis

Materials: One test tube, two 250mL beakers, starch solution, iodine solution, plastic sandwich bag

- Procedure:**
1. Put 50 mL of starch solution in the sandwich plastic bag and close tightly using a twistie tie. Try to have little air inside the closed sandwich bag.
 2. Put 50 mL of starch solution in the test tube.
 3. Place the plastic bag and test tube in separate iodine filled beakers and let stand for 25 minutes.
 4. Examine the starch solution in the plastic bag and the test tube and record the color of each every 2 minutes.
 5. Test the starch solution in the test tube with a little iodine solution. Record what color changes you observe.

- Conclusion:**
1. Based on your observations, what materials diffused through the plastic bag?
 2. Based on your observations, what materials did not go through?
 3. How do you think iodine atoms might differ from starch molecules?
 4. How is a plastic bag like a cell membrane?

