

Name _____

Diffusion Demo

Introduction: In this demo you will observe the diffusion of a substance across a semi permeable membrane. Iodine is a known indicator for starch. An indicator is a substance that changes color in the presence of the substance it indicates. Watch as your teacher demonstrates how iodine changes in the presence of starch.

1. Describe what happened when iodine came into contact with starch.

“While we wait for the results of this demo, answer the following questions”:

1. Define diffusion. _____
_____.

2. Define osmosis. _____
_____.

3. What is the main difference between osmosis and diffusion?

_____.

4. Molecules tend to move from areas of _____ concentration to areas of _____ concentration.

What's in the Bag?

We're going to think about concentrations now. Determining which substances are more or less concentrated depends on which one has the most stuff in it.

1. Is the baggie or beaker more concentrated in starch? _____
2. Is the baggie or beaker more concentrated in iodine? _____

Make Some Predictions

1. If the baggie was permeable to starch, which way would the starch move?
(into the bag or out of the bag?) _____
2. If the baggie was permeable to iodine, which way would the iodine move?
(into or out of the bag?) _____

