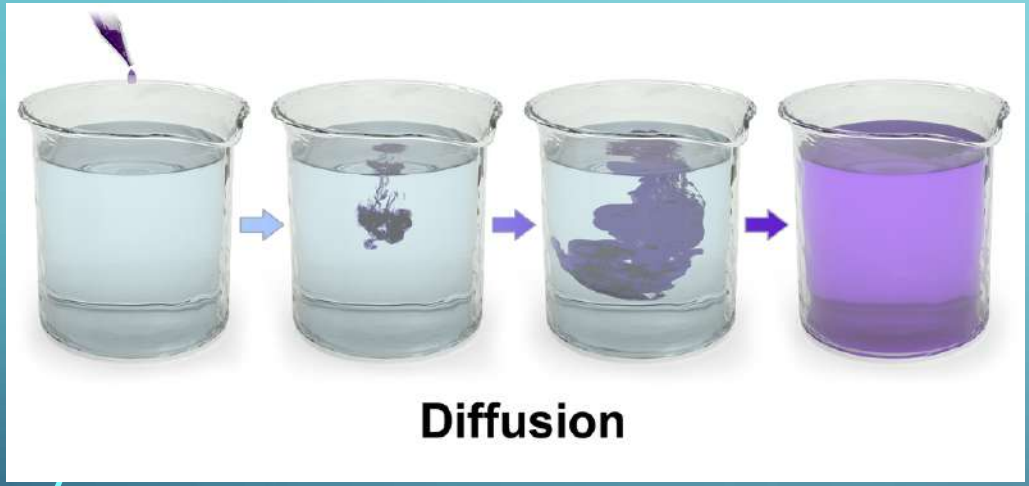
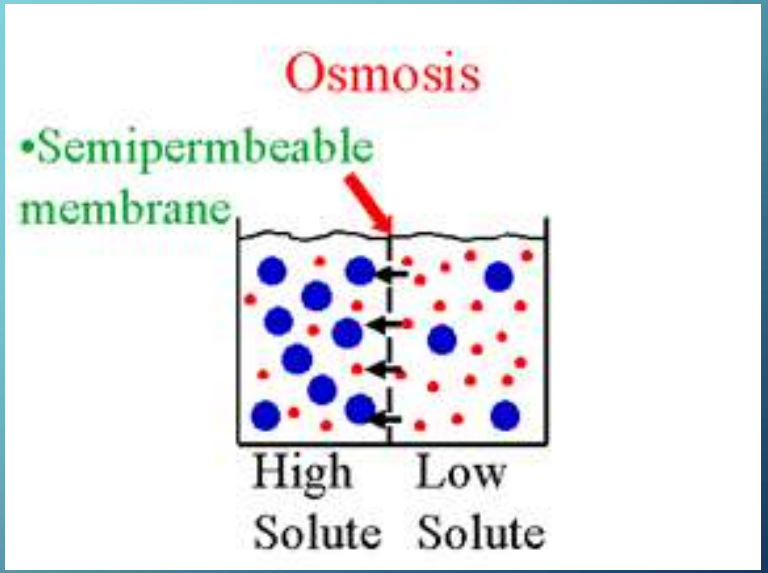
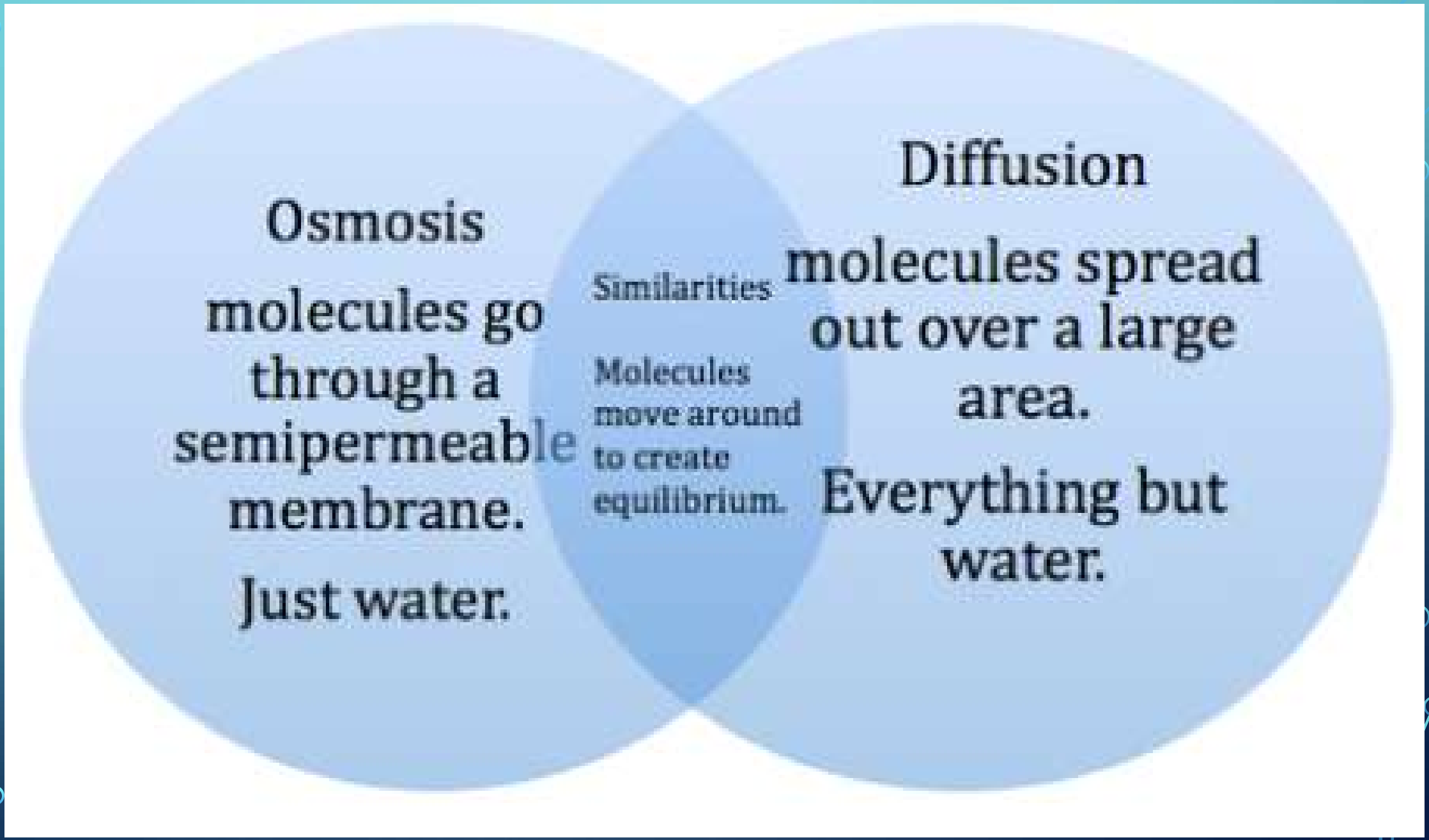
IODINE AND OSMOSIS LAB





GRADE 8 CELLS & SYSTEMS


Osmosis
molecules go through a semipermeable membrane.
Just water.
Similarities
Molecules move around to create equilibrium.
Diffusion
molecules spread out over a large area.
Everything but water.

1. Take a baggie fill with 100 ml of water, then place 5 mL of cornstarch in water inside the bag

2. prepare a beaker for your entire LAB GROUP (see diagram on left, this is what the group prepared, only 1 beaker per group)

3. Fill them about half full of water and add 10 drops of iodine, you want the water to be very orange.

The more concentrated the mixture, the faster the reaction.

NOTE that iodine is an "INDICATOR" in that it will change color whenever it encounters starch.

1. carefully place the baggie into the iodine mixture.(see diagram on left)

2. Go to the worksheet it will ask to make some predictions about what will happen and to define diffusion and osmosis.

The process should take about 15 minutes and you should notice a change in the color of the corn starch in the bag.

After 15 minutes, this is what you should observe (see diagram on left)

- on the worksheet YOU WILL HAVE to explain what happened. AND fill in the observation chart, in the lab handout

	Starting Color	Color after 15 minutes
Solution in Beaker	orange	orange
Solution in Bag	white	purple to black

- A common misconception is that the iodine "ate" through the bag. NOTE: that the bag is like a screen door and iodine is a very small molecule.

- Answer all questions on lab handout