



BEFORE WE START YOU MUST READ THIS!

Laboratory Safety

There are some important rules to follow and guidelines to keep in mind when conducting experiments or investigate.

These laboratory rules will always be followed. If you don't follow the rules you will be asked to leave and will not be allowed to participate anymore.

Some of the rules that you should not break are:

- Listen to all directions before beginning
- Always wear your laboratory coat
- If you are manipulating instruments or substances wear the appropriate protection
- Never taste or smell anything unless your teacher tells you that is okay to do so
- Never handle equipment without teacher's permission; lab materials are tools, not toys.
- Read carefully the instructions to know what steps you should follow
- If you are not sure about a procedure **ASK YOUR TEACHER!**
- Playing or making other dangerous activities in the laboratory will not be tolerated
- No food or drink are allowed during laboratory practice
- Wash you hands before and after the laboratory session



Explore and Explain

How can we represent the function of the cell membrane?

Use the mesh  , mixture and bucket.

Place the mesh on top of the bucket

Pour the mixture on top of the mesh, shake the mesh and observe.



Explore and Explain

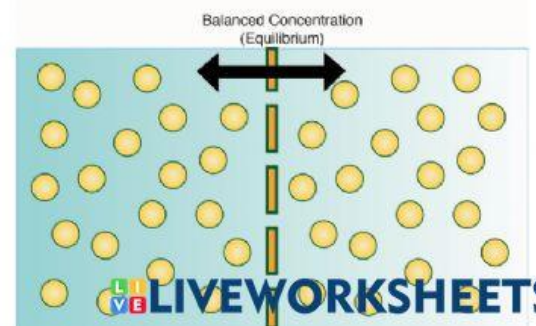
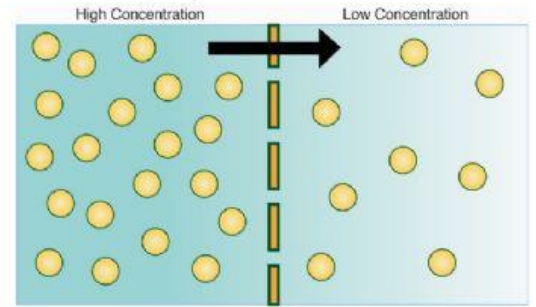
Questions:

1. What part of the cell does the mesh represent?
2. How is the behavior of the mesh compared to the behavior of the cell?



Observe and Predict

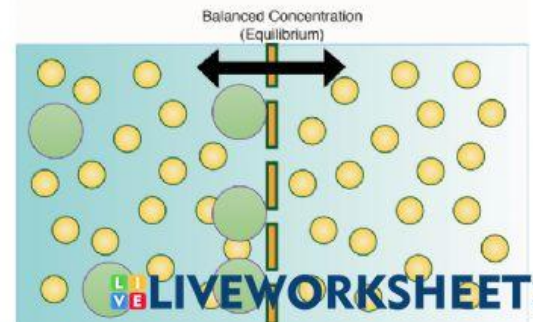
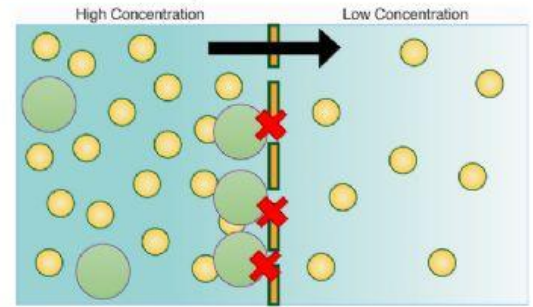
Diffusion consist in the flow of molecules or particles of a substance from a place of high concentration of this substance to a place of low concentration.





Observe and Predict

This molecules or particles can flow through the cell membrane only if the size of the molecules is small enough to cross the membrane.





Observe and Predict

Fill the following table with the information of the experiment.

	Color in the cup	Color in the tube	Iodine inside of the tube?
At the start of the experiment			
At the end of the experiment			



Prepare and Predict

Predict:

1. Where will the molecules move after some time?
 - a. Starch molecules will move out of the bag
 - b. Iodine molecules will move to the inside of the bag
 - c. None of the molecules will move
2. If the iodine reacts with starch what will we see?
 - a. The tube will break
 - b. The color of water will change
 - c. The tube will fill of air and float

