

Osmosis and Diffusion Lab

Name:

Date:

Class Period:

Define the following terms.

1. Osmosis:

2. Hypertonic:

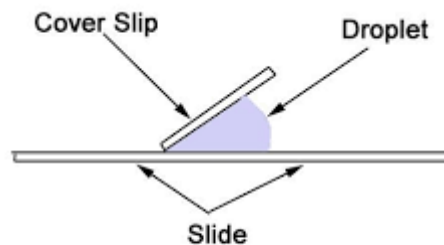
3. Isotonic:

4. Hypotonic:

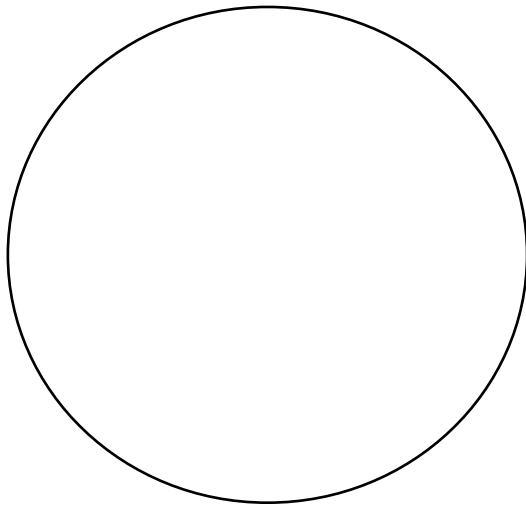
5. Diffusion:

Directions:

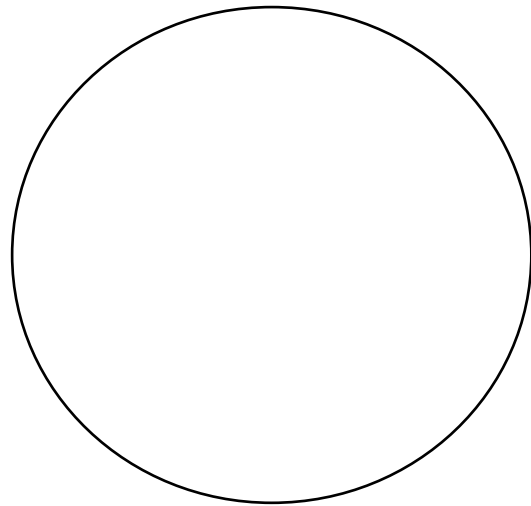
1. Using a knife or metal tweezers, cut a THIN slice of purple onion skin. Place the onion skin on a clean slide.
2. Put 2-3 drops of fresh water on top of the onion skin.
3. Observe the skin under the microscope on medium power and draw the skin.
4. Remove the slide from the microscope. Slowly add salt water to one side of the cover slip and hold a dry paper towel to the other side. The paper towel should absorb the fresh water and salt water should be replaced beneath the cover slip.



5. After the salt water has been on the slide for at least 2 minutes, draw your observations under medium power.



Fresh water 400x



Salt water 400x

Post-Lab Questions:

1. What happened to the cell wall when you added the salt water?

2. What happened to the cell membrane and cytoplasm when you added the salt water?

3. Explain why you think the changes occurred with the salt water? (What is happening inside the cell?)

4. predict what would happen to your red blood cells if you had too much salt in your bloodstream?
