**Basic Cell Processes/Transport –**

**Diffusion and Osmosis**

**Station 1:** *Complete the notes with Mrs. Willet.*

|  |  |
| --- | --- |
| **Selectively Permeable** |  |
| **Concentration** |  |
| High | Low |
|  |  |
| **Gradient** |  |
|  | **Diffusion** | **Osmosis** |
| Definition |  |  |
| Picture |  |  |
| Examples |  |  |
| In the cell |  |  |

**Station 2:** *Place a pinch of salt on top of an unused cube of potato. While you wait 5 minutes write a hypothesis of what you think will happen to the cube of potato when compared to a potato cube in water with no salt.*

Hypothesis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What happened after 5 minutes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

****Station 3:** *Scan the QR codes and watch the video. Create a comic story to explain diffusion and osmosis. Include text bubbles to explain the processes.*

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

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**Station 4:** *Scan the QR code. Try each of the cells in the different liquids. Draw a picture of what occurs and explain what happens.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Hypotonic | Isotonic | Hypertonic |
| Red Blood Cell |  |  |  |
| Elodea |  |  |  |
| Paramecium |  |  |  |

**Station 5:** *Observe each egg in a different liquid. Explain what is occurring to each egg.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Hypotonic | Isotonic | Hypertonic |
| Picture of Egg |  |  |  |
| What is happening? Why? |  |  |  |