**Conclusion- Data Analysis:**

In the following pictures, draw what was happening to your egg by using an arrow to show where water was diffusing through the membrane. **Label the following:**

* Solutes (the solid particles)
* Solvent (the liquid)
* Movement of water (osmosis) in the correct direction

What did it look like after the 2nd day?

Solution #1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Predicted type of solution:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

According to the changes, what type of solution was the egg ACTUALLY in?

*(Circle one)* Hypertonic Hypotonic Isotonic

Solution #2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What did it look like after the 2nd day?

Predicted type of solution:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

According to the changes, what type of solution was it ACTUALLY in?

*(Circle one)* Hypertonic Hypotonic Isotonic

Solution #3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What did it look like after the 2nd day?

Predicted type of solution:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

According to the changes, what type of solution was it ACTUALLY in?

*(Circle one)* Hypertonic Hypotonic Isotonic

Conclusion Rough Draft: 5-7 sentence paragraph using your answers to the following questions.

Vocab to Use:

*Diffuse/diffusion; hypotonic; hypertonic; isotonic; solution, solvent; solute; concentration*

Cause and Effect Language to Use (you do NOT have to use ALL of these):

*Due to; because; therefore; caused; resulted in; led to; consequently*

1. What happened to each egg? Support your conclusion with specific data.

*When we \_\_\_\_\_, it led to \_\_\_\_ because \_\_\_\_.*

*Placing/ submerging/ immersing \_\_\_\_\_\_ caused it to \_\_\_\_\_\_ because \_\_\_\_\_.*

*We placed \_\_\_\_\_\_ in \_\_\_\_\_\_\_. Consequently, \_\_\_\_\_\_.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Explain WHY this happened to each egg using your vocabulary words and cause and effect language.

*This was due to \_\_\_\_\_*

*\_\_\_\_\_\_\_ caused \_\_\_\_\_\_\_ because \_\_\_\_*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Did your data support your hypotheses? Were the outcomes consistent with what you predicted (use data to support your conclusion)?

*I predicted \_\_\_\_\_, however/ and\_\_\_.*

*This suggests \_\_\_\_\_\_\_.*

*Our results are consistent/ not consistent with \_\_\_\_\_\_.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Apply this concept to a real life situation. Why is this concept of osmosis and maintaining homeostasis important?

Below are examples that you may use to finish your conclusion (you may need to do some research). Explain IN DETAIL for the full 5.

* What happens when we dehydrate fruit?
* Why do slugs die when you put salt on them?
* Why can’t we use only water when getting an IV or blood transfusion in the hospital?
* (Challenge) What happens when we water plants? *(must mention cell walls and osmotic pressure)*
* (Challenge) How are osmosis and kidney dialysis connected?
* (Challenge) How could reverse osmosis solve a potential water crisis?