Osmosis and Diffusion “Egg” Lab  

Purpose (Learning Target) 

Hypothesis: #1 what will happen to the egg after it sits in the vinegar? 

Materials: 
1. 
2. 
3. 
Etc. 

Procedure: Develop a procedure to test your hypothesis. 
1. 
2. 
3. 

Data/Results/Observations: Data Table needed for analysis question 3
Analysis (Levels 1-4 are required)

Day 1 Vinegar

Level 1: Define Diffusion.
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Level 2: Explain how your egg’s appearance shows diffusion occurred.
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Level 3: Using data you collected support why you can prove diffusion occurred. Remember it must be tangible.
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Level 4: Compare in detail the results of this lab to an outside occurrence.
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Conclusion (Required)

1. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
2. Restate the purpose / question/ problem.
3. Tell whether you accept or reject the hypothesis based on the results from this experiment.
4. What did you learn in this lab?
5. Now I wonder? (What are possible further experiments or questions that you could ask based on this experiment?)
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Osmosis and Diffusion “Egg” Lab

Day 2 Corn Syrup

Purpose (Learning Target) ____________________________________________________________

Hypothesis: #1 what will happen to the egg after it sits in the corn syrup?
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Materials:

1. 

2. 

3. 

Etc.

Procedure: Develop a procedure to test your hypothesis.

1. 

2. 

3. 

Data/Results/Observations: Data Table needed for analysis question 3
Analysis (Levels 1-4 are required)

**Day 2 Corn Syrup**

**Level 1:** Define equilibrium.

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**Level 2:** Explain how your egg’s appearance shows that it has not reached equilibrium.

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**Level 3:** Using data you collected support why the egg has not reached equilibrium. Remember it must be tangible.

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**Level 4** Compare in detail the results of this lab to an outside occurrence.

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**Conclusion (Required)**

6. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
7. Restate the purpose / question/ problem.
8. Tell whether you accept or reject the hypothesis based on the results from this experiment.
9. What did you learn in this lab?
10. Now I wonder? (What are possible further experiments or questions that you could ask based on this experiment?)

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Purpose (Learning Target) ________________________________________________________________

Hypothesis: #1 what will happen to the egg after it sits in the water?
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Materials:
1.
2.
3.
Etc.

Procedure: Develop a procedure to test your hypothesis.
1.
2.
3.

Data/Results/Observations: Data Table needed for analysis question 3
Analysis (Levels 1-4 are required)

*Level 1: Define osmosis.*

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*Level 2: Explain how your egg’s appearance shows osmosis has occurred.*

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*Level 3: Using data you collected support why osmosis has occurred in your egg. Remember it must be tangible.*

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*Level 4: Compare in detail the results of this lab to an outside occurrence.*

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**Conclusion (Required)**

11. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
12. Restate the purpose / question/ problem.
13. Tell whether you accept or reject the hypothesis based on the results from this experiment.
14. What did you learn in this lab?
15. Now I wonder? (What are possible further experiments or questions that you could ask based on this experiment?)
Osmosis and Diffusion “Egg” Lab Day 4 food coloring

Purpose (Learning Target) ________________________________________________________________

Hypothesis: #1 what will happen to the egg after it sits in the food coloring?
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Materials:
1.
2.
3.
Etc.

Procedure: Develop a procedure to test your hypothesis.
1.
2.
3.

Data/Results/Observations: Data Table needed for analysis question 3
Analysis (Levels 1-4 are required)

Day 4 food coloring

Level 1: Define permeable membrane.

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Level 2: Explain how your egg’s appearance shows the eggs membrane is permeable.

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Level 3: Using data you collected support why the membrane is permeable. Remember it must be tangible.

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Level 4 Compare in detail the results of this lab to an outside occurrence.

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Conclusion (Required)

16. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
17. Restate the purpose / question/ problem.
18. Tell whether you accept or reject the hypothesis based on the results from this experiment.
19. What did you learn in this lab?
20. Now I wonder? (What are possible further experiments or questions that you could ask based on this experiment?)

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