Diffusion and Osmosis Lab Poster Instructions

Part I: Cell Size and Shape

Your poster should include:

1. *Pictures/Drawings of your gel blocks at different parts of the experiment.*
2. *Data table with measurements and/or observations.*
3. *Comparison of your group’s data to that of at least 1 other group.*
4. *Discussion of how Surface area and Volume played a role in the different results that you see in your gel block and that of the other group.*

Part II: Solutions in Disguise

Your poster should include:

1. *Purpose of the lab.*
2. *Summary of your procedure with pictures*
3. *Data Table*
4. *Summary of results, including:*
   1. *What is the order of the solutions from least to most concentrated? What is the molar concentration of each solution?*
   2. *Calculate the water potential of each solution. Do you notice a pattern in the water potentials? Relate this to the order of the solutions.*
5. *Your assigned question:* 
   1. *Which solution had a water potential equal to that of the plant cells? How do you know?*
   2. *How would your results be if the potato were placed in a dry area for several days before your experiment?*
   3. *Could this experiment have been conducted with animal cells? Why or why not?*
   4. *Could this experiment have been conducted with fungal cells? Why or why not?*
   5. *Which solutions had a water potential higher than that of the potato cells? How do you know?*