

## Design Lab: Osmosis and Diffusion

Your task is to design a lab to demonstrate the process of osmosis or diffusion. Your design should be detailed so that the experiment can be replicated with the same results. A list of the materials available to you is available below.

You will design the lab, get approval and then carry out the lab. This will generate two different marks for you – a mark for your design and a mark for carrying out the lab and writing the lab report.

Marks awarded for the design include the following:

Cover Page (should contain title, course code, name and date)	1				
Purpose	1	2			
Hypothesis statement (If...then...)	1	2			
Materials	1	2			
Procedure	1	2	3	4	5
Be sure to include a control					
Procedure should be written in third person					
Procedure should be in a numbered list					
Observations	1	2	3		
This may include quantitative and qualitative data					
Conclusion	1	2	3	4	5
Include overall findings and trends					
Include sources of error					
Include how the lab may be improved					

Materials Available:

- Beakers
- Test Tubes
- Graduated Cylinders
- Warm and Cold Water
- Gummy Bears
- Potatoes
- A sharp knife
- Salt
- Sugar
- Rulers
- Balances

SBI 4U  
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