

During this activity, you will use dialysis tubing and various solutions to study the movement of molecules across a selectively permeable membrane via diffusion and osmosis. Cellulose dialysis tubing is used as the selectively permeable membrane.

Pre-laboratory Questions

1. How are osmosis and diffusion similar? How are they different?
2. If a solution is hypertonic to a cell, in which direction will water move, and why?
3. If a solution is hypotonic to a cell, in which direction will water move, and why?

Materials

Station 1:	8 cups iodine-potassium iodide 70% glucose solution 2% starch solution 2 pairs of scissors	deionized water 6 plastic dropping pipets white thread 16 glucose test paper strips 2 rulers 2 permanent markers
Station 2:	dialysis tubing 2 pairs of scissors	2 rulers 250-mL beaker of deionized water
Station 3:	8 cups 20% glucose solution 10% glucose solution deionized water 2 pairs of scissors	6 plastic dropping pipets red thread blue thread paper towels 2 rulers 2 permanent markers
Station 4:	electronic balance(s) 16 plastic weigh boats	
Station 5:	dialysis tubing 2 pairs of scissors	2 rulers 250-mL beaker of deionized water

Carolina Study Guide Diffusion And Osmosis

H Kauffman



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