

Lab Sheet: Osmosis and Diffusion

Materials needed	Part A: osmosis <ul style="list-style-type: none">• 3 clear containers (jars or cups)• 3 gummy animal candies (each a different colour)• Tap or bottled water• Plate (to set wet gummy candies on, preferably white)• Spoon or fork to take gummy candies out• Clock or timer• Ruler (to measure gummy candies)• Pencil or pen to record your observations Part B: diffusion <ul style="list-style-type: none">• Plate (preferably white and not paper)• Bag of hard-shelled candies• Very warm water• Pencil or pen to record your observations
Hypothesis – What do you think will happen?	

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Procedure	<p>Part A: osmosis</p> <ol style="list-style-type: none">1. Measure the length, width and height of the gummy candies one at a time and record them in the observations chart provided.2. Fill the three cups of water up evenly.3. Add one gummy candy to each cup of water.4. Record your observations after 2, 4 and 6 hours on the observations chart. Do not remove the gummy candies. (NOTE: 6 hour time can be adjusted to longer if experiment runs overnight. Just adjust chart to new length of time)5. After 6 hours, remove each gummy candy individually and place them on the plate.6. Measure the length, width and height of the three gummy candies again and record the data in the observations chart. What did you notice? <p>Part B: diffusion</p> <ol style="list-style-type: none">1. Place the hard-shelled candies around the edge of the plate, trying to alternate the different colours.2. Slowly pour the very warm water in the center of the plate until it just covers the bottom of all the candies. Record what happens in the observations chart.
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Observations *Remember observations can be recorded with pictures, numbers and/or words!	Part A: Osmosis			
	Original gummy candy measurements	Candy 1 L - W - H -	Candy 2 L - W - H -	Candy 3 L - W - H -
	How is the candy changing after 2 hours?			
	How is the candy changing after 4 hours?			
	How is the candy changing after 6 hours?			
	Gummy candy measurements after 6 hours in water	Candy 1 L - W - H -	Candy 2 L - W - H -	Candy 3 L - W - H -

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Observations *Remember observations can be recorded with pictures, numbers and/or words!	Part B: Diffusion
	What happened to the hard-shelled candies when you added the warm water? Draw a diagram and/or explain in words (written or oral).
Conclusions	
Questions	