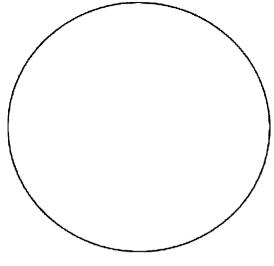
**WATCH AMOEBA SISTERS OSMOSIS: https://www.youtube.com/watch?v=laZ8MiF3C6M (Stop at 1:15 min.)  **Go back to the gummy bear sketches. Draw arrows to show the direction of diffusion of water molecules if it occurred  HOW DOES THIS RELATE TO CELLS?  MAGINE the gummy bears are living things. If we could take a tissue sample of the gumming place it under the microscope, (the basic building blocks of living things) show poservable.  If the Cellular level: ake a look at a sample of red onion/elodea. Sketch the ONE onion/elodea cell in the field of ew below at 400x.	Plain Water	Salt Water	No Water
(Stop at 1:15 min.)  **Go back to the gummy bear sketches. Draw arrows to show the direction of diffusion of water molecules if it occurred  HOW DOES THIS RELATE TO CELLS?  MAGINE the gummy bears are living things. If we could take a tissue sample of the gumming place it under the microscope, (the basic building blocks of living things) show its servable.  It the Cellular level:  take a look at a sample of red onion/elodea. Sketch the ONE onion/elodea cell in the field of ew below at 400x.		·	
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• 1 <del>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </del>			NB67

Add salt water to the onion/elodea slide Magnify the specimen to 400x. Sketch the ONE onion/elodea cell in the field of view below.



Describe a d	lifference between th	e first cell in fre	shwater vs. the second cell after	salt water was
applied.				
			· · · · · · · · · · · · · · · · · · ·	
	lants, the cell membra	ane shrinks awa	ich cells lose water, shrinking of y from the cell wall. As the cell orm their necessary processes.	<b>7 1</b>
			omplete each section of the conc be based on results from the lab	
water	membrane	cells	selectively permeable	osmosis
Why	did the results occur	? It has to do w	vith a process called	·
Imagine the	gummy bear is a rea	l living thing; it	would be made of tiny, living u	nits called
	Each cell	is surrounded b	y a tha	at protects the cell
by keeping	the cells parts inside	and keeping oth	er things outside. While it stops	s most things,
	can pas	s through it. Th	ne membrane is called	
			because it regulates v	what comes in and
out.				NB63

NB64

					plain h	_
Osmos	is is a kind of			. When diffus	sion occurs, mo	olecules move
from a		concent	ration of wate	er towards a _	ugavenia and a second	
concentration	of water. If or	utside the cel	l has LESS w	vater than insi	de, water will	move from the
	of	the cell to th	e		. That is what	happened to the
					to move out of	
bear to "even o	out" the conce	entration of w	ater. The gu	mmy bear be	came	
with less water	r to fill it up.	340				
The op	posite happer	ned to the gur	nmy bear in	the		water. Water
moved from th	ne		of the gumr	ny bear to the	·	to
moved from the of the gummy bear to the to  "even out" the concentration of water. As more and more "cells" gained water, the gummy bear						
became		as more	e water filled	it up.		
So wha	at does all of t	his have to d	o with me? (	Osmosis work	s the same way	y for your cells
as it does in th	e gummy bea	r. When you	are sweating	g, you are		water.
Osmosis takes over and starts to pull water out of your cells, which is not a good thing (for						
starters: dehydrationcell collapse)! Now that water left your cells, the concentration of salt in						
your cell has (this can lead to mineral imbalances that could stop						
enzymes which are needed for most cell functions from working properly). It is very important to						
drink a lot of v	water if you an	re sweating b	ecause		would o	ccur again and
balance out the water to keep you healthy.						

NB16H