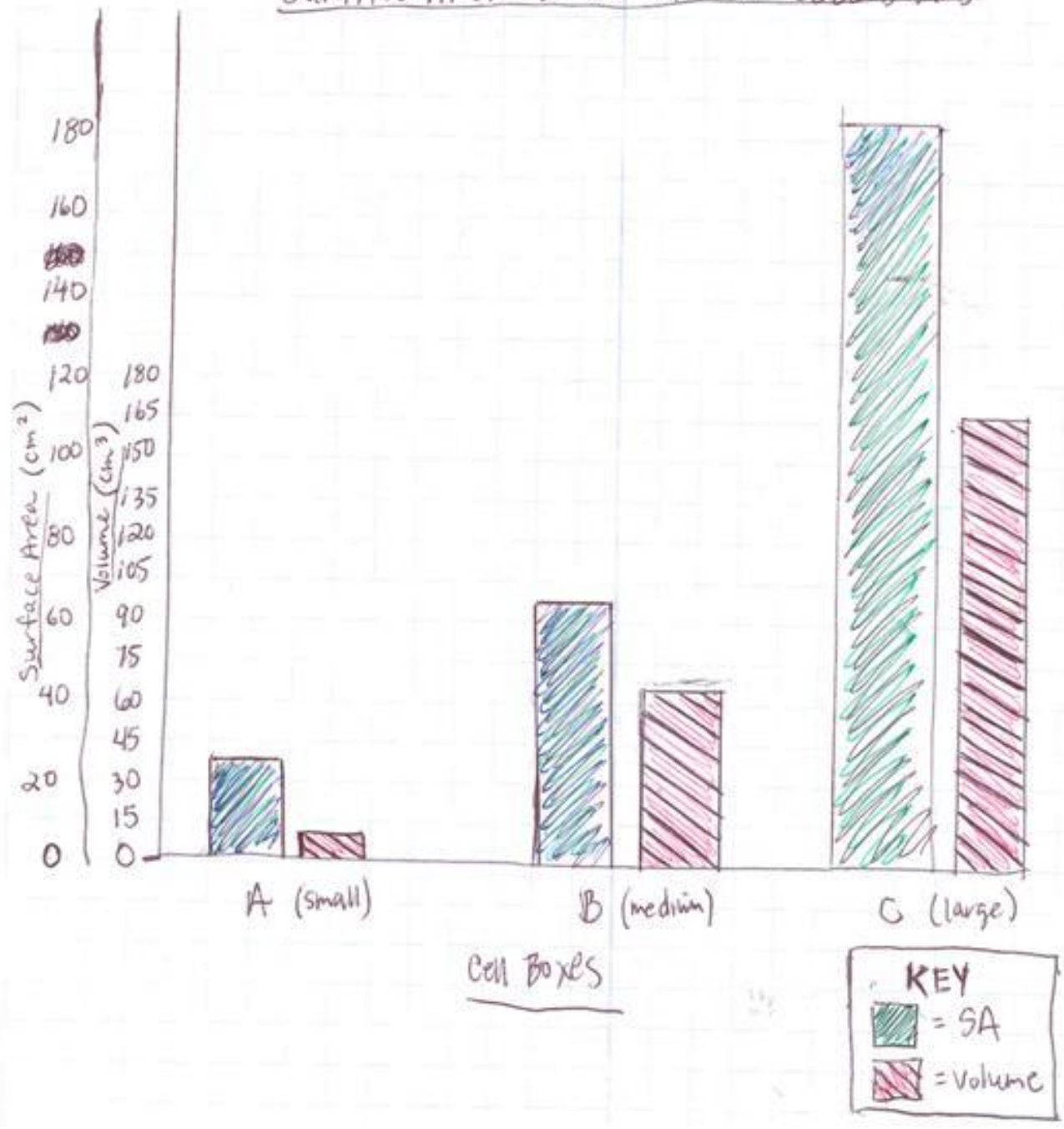


y Laura y Andrea

SURFACE AREA & VOLUME OF CELL BOXES



High School Life Science Example #1

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
	LS1.A	Analyze and Interpret Data	Patterns		MP.2, MP.4, HSS-ID.A.1

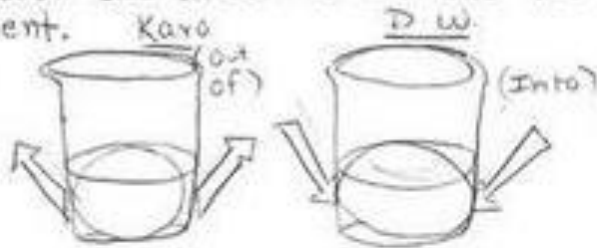
Questions

1) What was the purpose of soaking the eggs in vinegar?
- To dissolve the egg shell off the egg.

Why was this necessary before doing our experiment?
- So the Karo and distilled water could be absorbed into the eggs.

2) Sugar molecules can't diffuse through the cell membranes but water can. Use this to explain your results.
The water was absorbed by the egg, and this increased the egg's weight.

3) Draw a picture of the egg in Karo and the egg in the distilled water. Use arrows to indicate the net direction of water movement.











4) Which solution was hypertonic to the egg and which was hypotonic?
Egg A - Karo - was hypertonic
Egg B - distilled water - was hypotonic

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High School Life Science Example #2

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
	LS1.C	Plan and Carry Out Investigations	Cause and Effect	WHST.9-12.2	MP.2

Stored Food Energy

Food 	Grams Per Serving	Calories Per Serving	Calories per Gram	CALORIES Per 100 GRAMS	Picture
Cereal Bar	37g	140	$140 \div 37 = 3.78$	$3.78 \times 100 = 378$	
Tuna fish	56g	60	1.07	107	
Ravioli in Tomato in Meat sauce	244g	240	.98	98	
Tomato Sauce	62g	15	.24	24	
Chili Cheese Fritos	28g	160	5.71	571	
MONTEREY JACK CHEESE	28g	100	3.57	357	
Fanta Orange POP	227.4g	160	0.7	70	

Charts - Biology

High School Life Science Example #3

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
	LS1.C	Obtain, Evaluate, and Communicate Information	Patterns	WHST.9-12.2 WHST.9-12.7	MP.2, HSN-Q.A.3