Hypothesis

~The mass of the egg will decrease the most when submerged into 100% syrup compared to 50% syrup and 50% distilled water solution. The 25% syrup and 75% dissected water solution will lose the least amount of water.

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~The sugars will not diffuse across the semipermeable membrane because the molecules are too big to fit through.

Weights

~Before: 61.55, 50.06, 55.04

~After: 80.08, 90.04, 70.66

Math

~Final mass 240.78

~Initial mass 171.65

~240.78 - 171.65= 69.13 x 100 = 6913

~6,913

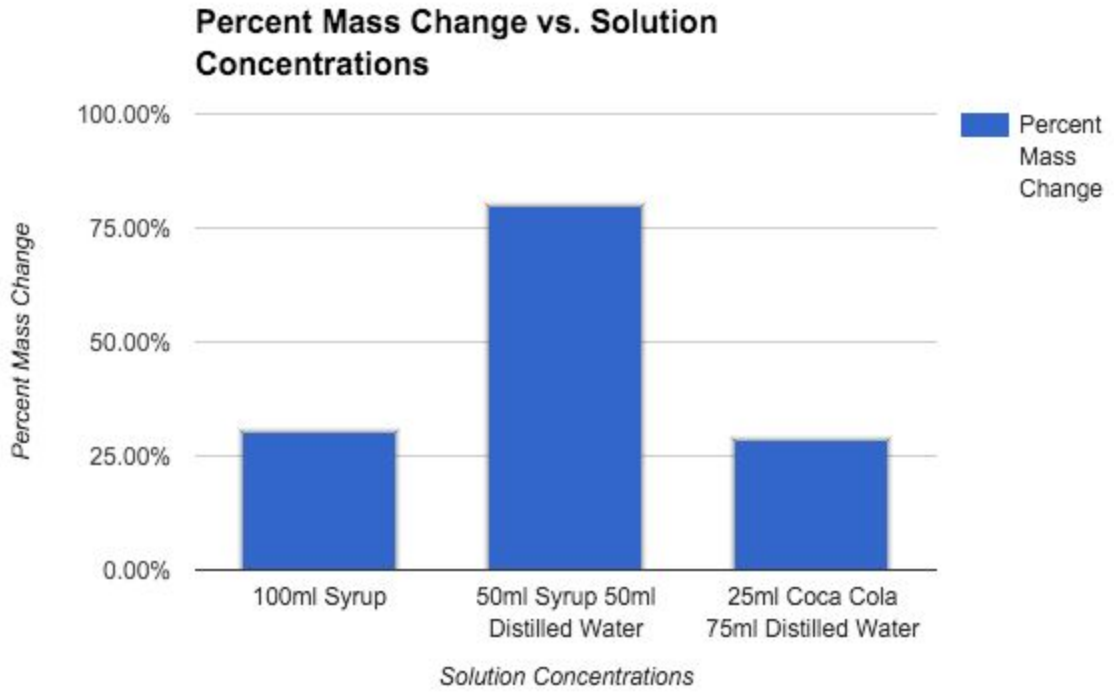
Methods

1. 3 eggs were individually weighed
2. 100 ml of water was placed into a blue solo cup
3. 75 ml of water and 25 ml of syrup was placed into a blue solo cup
4. 50 ml of water and 50 ml of syrup was placed into a blue solo cup
5. 100 ml of syrup was placed into a blue solo cup
6. 1 egg was placed into each of the cups
7. The eggs were left in solution for 24 hours.
8. All of the eggs were re-weighed.

Results

Solution Concentrations	Percent Mass Change
100ml Syrup	+30.10%
50 ml Syrup 50 ml Distilled Water	+79.80%
25 ml Coca Cola 75ml Distilled Water	+28.30%

Table .1 The percent mass change of deshelled eggs in different solutions



~The Percent mass change was calculated for each egg by taking the final mass of the egg, minus the initial mass of the egg, divided by the initial mass and then multiplied by 100. The egg submerged in 100 ml of syrup mass(grams) increased by 31.0%. The egg submerged in 50 ml of syrup and 50 ml of distilled water mass increased by 79.80%. The egg submerged in 25 ml Coca Cola and 75 ml of distilled water mass increased by 28.30%. The egg that had the highest mass change was the egg submerged in 50 ml of

syrup and 50 ml of distilled water. The egg with Coca Cola had the least change in percent mass, but it was very close to the egg submerged in 50 ml of syrup.

Discussion

The experiment was done to figure out if too much water could kill you we reject our hypothesis because none of are eggs had decreased mass