



Name _____

IB EXPERIMENT DESIGN TEMPLATE STYLE B

Period	Date	Seat No.

In the space below (for quantitative data only),

- design a data table for displaying relevant raw data.
- enter proxy data into the data table.
- run the proxy data through your chosen quantitative analysis tool.
- display the processed proxy data in a graph.

Teacher Notes:

10 bowls of 8 eggs.

Bowl	А	В	С	D	Control (baseline)	E	F	G	н	Extra
Number of Eggs	8	8	8	8	8	8	8	8	8	6 -8
Sucrose Conc. %	0	6	12	18	21	24	30	36	42	21

Make 9 liters of 42% Sucrose solution as follows:

In a 4 Liter beaker, add 3 L of water and place on a hot/stir plate. Add 1260 g of sugar. Repeat two more times to make a total of 9 liters. Pour all 3 batches into a bucket and thoroughly mix. Pour the sucrose solution into 3 one-gallon jugs. These jugs will represent the stock solution. Students will dilute from the 42% sucrose solution to obtain what they need.

After de-shelling the eggs, each group is to make 1 liter of 21% baseline solution to soak their eggs in for one day (see table below). Each group will also prepare 1 liter of their assigned sucrose concentration according to the table below for use the next day:

Mix the followin	to make 1000			
of 42% solution and	water	mL of % solution		
1000 mL	0 mL	42%		
858 mL	142 mL	36%		
714 mL	286 mL	30%		
572 mL	428 mL	24%		
500 mL	500 mL	21%		
429 mL	571 mL	18%		
286 mL	714 mL	12%		
143 mL	857 mL	6%		
0 mL	1000 mL	0%		