Name: _____

Lab #10: Cellular Respiration Lab

Rate of Respiration - Virtual Lab

http://amrita.olabs.edu.in/?sub=79&brch=17&sim=204&cnt=4

This simulation allows you to change three different variables: type of seeds, number of seeds, and temperature. When you start the experiment, you can alter the variables and it will run for two hours. The water level (starting at 2ml) will rise to reflect the amount of CO_2 produced by the seeds in the flask.



Question 1: How does the number of seeds in the chamber affect the rate of respiration?

CLAIM:

EVIDENCE:

Number of Seeds	10	20	30	40	50
CO ₂ Level	0.9	1.6	2.4	ر 0	3.5

REASONING: (Summarize trends in the data and provide an explanation for those trends).

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7	mor	e s	reed tu	10wer	- th	on and	the higher the con

Question 2: How does the temperature of the chamber affect the rate of respiration?

CLAIM:

Th	temp	//iw	affec+	tle	Seed	
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EVIDENCE:

Temperature	চ	15	25	35	11 NXIII
CO ₂ Level	٧.٥	0,9	1.5	2.1	

REASONING: (Summarize trends in the data and provide an explanation for those trends).

I appect my claim because the Con level Went up when the temporture level went Up,

Question 3: Does the type of seed affect the rate of respiration?

For this section you must make a claim, create a data table, and then explain your data.

Claim:

yes the type of Seed should affect the rate

Evidence (Data Table):

Seebs	Whent	groundnut	Musture	gram	Bean
(O2	0.9	0.5	0.5	0.5	0.5

Reasoning (Conclusion):

Yes my claim was correct because the year of seed affect the CD2 level