

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 CO₂ produced by the seeds in the flask.



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

CLAIM:

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EVIDENCE:

Number of Seeds					
CO ₂ Level					

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

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

CLAIM:

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EVIDENCE:

Temperature					
CO ₂ Level					

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

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:

Evidence (Data Table):

Reasoning (Conclusion):