

Experimental Design Lab (Enzymes)

Assignment Goals :

- To design and conduct an experiment to determine the effect of a variable (pH or temperature) on catalase activity.
- To understand how to isolate and manipulate variables.
- To demonstrate an ability to organize and interpret data.

Assignment:

You will prepare a lab report which includes the following:

1. Hypothesis
2. Purpose
3. Materials (a list of all required materials)
4. Procedure (explains how you will test it, diagrams can be used)
5. Data table and Graph
6. Conclusions - Make sure you use your data to come to your conclusion.
7. Sources of error.

Grading Rubric

	Not completed (0)	Needs Work (1)	Good (2)	Excellent (3)
Hypothesis				
Clearly written/states variable				
Purpose				
Clearly written, relates to hypothesis				
Materials				
Complete				
Procedure				
Complete				
Logical (correct order)				
Easy to understand				
Data Table				
Organized/separates variables				
Graph				
Labeled				
Correct				
Neat				
Conclusions				
Proves/disproves hypothesis				
Discusses lab with regards to the purpose				
Correct				
Sources of Error				
Overall				
Neatness/organization/presentation				

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