completion and sto section by the app and then this pape	Title: Enzyme Lab parts of this lab report are to be written neatly on this sheet. Each part will be checked for amped the day it is due on this sheet of paper! You will earn full credit for completing each repriate due date. At the end you will use this to help you write out your final lab report er will be turned in for a grade separate from your lab report grade.			
PART A. Testable	e Question: How does different temperature affect enzyme activity?			
Identify keywords	& conditions that are necessary to test this question (i.e. variables)			
<u>Directions:</u> Using	oing Background Questions: The key words you listed in Part A develop some background questions related to the testable decord your questions in the chart below.			
Question Word	Possible Question			
Why	EX. Why do enzymes react differently? Why?			
How	EX. How do enzymes react? How does one measure?			
What	EX: What causes enzymes to react? What cause to increase/decrease? What are characteristics of?			
	Stamp:			
	ching Answers to Your Questions your best questions from part B that are most relevant to the testable question. While you the attached background information be sure to look for and record the answers to these			
read and annotate	your questions and answer in the chart below. Answers			
read and annotate questions. Record	your questions and answer in the chart below.			
read and annotate questions. Record	your questions and answer in the chart below.			
read and annotate questions. Record	your questions and answer in the chart below.			
read and annotate questions. Record	your questions and answer in the chart below.			
read and annotate questions. Record	your questions and answer in the chart below.			
read and annotate questions. Record	your questions and answer in the chart below.			

PART D: Writing Your Essay (Review of Literature)
Directions: Use the outline below to write your brief paragraph draft essay. Use the space provided below!

A. Background Question #1 (i.e. why, how, what, when, where) A. Main Idea (introduce and answer to question) B. Evidence (answer found through research; paraphrased or directly quoted) C. Link (elaborate or make sure it is clearly explained) D. Conclusion (Summarize answer to question and transition to next question)	 Things to Remember: 3rd person only (no I, me, you, we, us, our, etc) Direct quotes and paraphrased information must be cited. (i.e. According to; states etc) 		

PART E: Hypothesis	
Directions: Use the testable question to write your hypothesis.	
1. Class testable question:	
Independent variable (s):	
Dependent variable:	
2. Hypothesis: If	
(what you are doing; IV)	
Then	
(what you expect to see; DV)	
Because	
	Stamp:

PART F: Materials and Procedure

1. Directions: Using the list of materials provided by the teacher write your material list here

ocedure:		
		Stamp:
RT G: Results		
 Data Table: <u>Directions:</u> Copy the data complete data table using the data pre 		ate sheet of paper as directed in class. The eriment
2. Graph: <u>Directions:</u> Create graph usir	ng the space below	w
	he following quest	stions in complete sentences.
3. Data Analysis: <u>Directions:</u> Answer th		
3. Data Analysis: <u>Directions:</u> Answer the Vhat is the title of the graph?		

PART H: Conclusion

<u>Directions:</u> Write your conclusion using the following outline Recall that MEL-Con format is used to write scientific conclusions.

- I. Main Idea (State your hypothesis and whether it was supported or not supported by your experiment
- II. Evidence (Provide numerical evidence. Be sure to compare different data from different variables)
- III. Link (Make a connection between what you found in your evidence and what you found in your background research)
- IV. Conclusion (Summarize your findings)

Directions: Your conclusion should answer the bolded question below. Each of the numbered questions represents the information that should be in your final version of your enzyme lab conclusion. **Answer each question in complete sentences.**

What is the effect of temperature on enzyme activity?

1.		ain Id <u>ta</u> .	ea: Restate your hypothesis AND whether it was supported or not supported by the class average
2.	Ev	videnc	e:
	a.	Sum	marize what was done in the experiment.
	b.	Wha	t was the purpose of using jello and pineapples?
	c.	How	was change in height determined?
	d.	State	the change in height of jello, based on <u>class averages</u> for <u>ALL</u> temperatures.
3.	Li	nk:	
	a.	Wha	t temperature caused the greatest change in jello height?
	b.		much more of a change in height did this temperature cause compared to the temperature that ed the smallest change in height?
	c.	Was	your class data similar to your group data? Explain.
	d.	Wha	t is the difference between active and denatured enzymes?

e. What can be concluded about enzyme activi	•	ure based on change in hei	ght of jello?
Use terms such as "active enzyme" and "der	natured enzyme".		
			
4. Concluding Statement: Fill in the blanks.			
a. Therefore, the enzyme bromelain denatures	around	°C based on the results	of
of jello after pine	apple juice of	were add	led to it.
	Stamp:		
Directions: Rewrite all the answers from questions DRAFT of your conclusion. **Be sure to proofread questions are answered**			
PART I: Final draft	St	tamp:	

<u>Directions:</u> Using all of the things you have completed from this worksheet write (or type) your final draft neatly in the following order. (Refer to teacher Example) Remember you will turn in your Draft packet and Final Lab write up! It is **2 Separate grades**!!!!

1. **Title:** (from top of worksheet)

- 2. **Purpose**: (Insert Testable Question from Part A:)
- 3. **Hypothesis**: (from Part E)
- 4. **Background Information:** (Essay from Part D)
- 5. **Materials and Procedure**: (from Part F)
- 6. **Results**: (Insert data table, graph, and data summary from Part G)
- 7. **Conclusion:** (from Part H)