Name: _____

Title: Respiratory Lab

Directions: *Most parts of this lab report are to be written neatly on this sheet. Each part will be checked for completion and stamped the day it is due on this sheet of paper! You will earn full credit for completing each section by the appropriate due date.* ***At the end you will use this to help you write out your final lab report and then this paper will be turned in for a grade separate from your lab report grade.***

PART A. Testable Question:

_____

_____

Identify keywords & conditions that are necessary to test this question (i.e. variables)

_____ _____ _____

_____ _____ _____

PART B. Developing Background Questions:

Directions: *Using the key words you listed in Part A develop some background questions related to the testable question above. Record your questions in the chart below. Remember these question Explain Respiratory system so people know how it functions and is important.*

Question Word	**Possible Question**
Why	Why _____?
How	How does _____? How does one measure _____?
What	What cause _____ to increase/decrease? What are characteristics of _____?
When	When does _____ cause _____?
Where	Where do _____?

Stamp:

PART C: Researching Answers to Your Questions

Directions: *Circle 2 of your best questions from part B that are most relevant to the testable question. While you read and annotate the attached background information be sure to look for and record the answers to these questions. Record your questions and answer in the chart below.*

Questions	Answers
1._____	1. According to_____

Questions	Answers
2._____	2. According to_____

Stamp:

PART D: Writing Your Essay (Review of Literature)

Directions: Use the outline below to write your brief 4 paragraph draft essay . Use the space provided below! Or you can use your own notebook paper and staple it to packet

I. Introduction

A. Attention getter (i.e. quote, statistic, fact, question, etc.)
B. Connector statement (sentence that connects attention getter to goal of lab [purpose of lab])
C. Testable Question/ thesis statement
D. Summarizing statement (i.e. why might one be interested/ why important)

II. 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)

III. 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:

1. ***3rd person only (no I, me, you, we, us, our, etc)***
2. ***Direct quotes and paraphrased information must be cited. (i.e. According to...; _____ states...; etc)***

IV. Conclusion

A. Summarize two questions
B. Testable question/Thesis statement restated
C. Attention Statement Revisited
D. Clincher (State something that makes the reader think about why this information is important

Stamp:

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:*

Stamp:

2. *Directions: Copy down the actual procedure provided by your teacher*

Procedure:

Stamp:

PART G: Results

1. *Data Table: Directions: Copy the data chart in the space provided in this packet, as directed in class. Then complete data table using the data provided in the experiment*

2. *Graph: Directions: Create graph using the graph paper in this packet. Remember this is just a DRAFT!*

3. *Data Analysis: <u>Directions:</u> Answer the following questions in complete sentences.*

*a. What is the title of the graph?*_____

*b. What is your minimum and maximum values on your graph?*_____

_____

*c. What pattern or trend do you see on your graph? Describe it.*_____

_____

Stamp:

Table 1: Group Data

	Body Positions									
	Standing Tidal Volume		**Twisted Tidal Volume**		**Bent Tidal Volume**		**Sitting Tidal Volume**		**Laying Tidal Volume**	
	Balloon Diameter	**Lung Volume**	**Balloon Diameter**	**Lung Volume**	**Balloon Diameter**	**Lung Volume**	**Balloon Diameter**	**Lung Volume**	**Balloon Diameter**	**Lung Volume**
Trial 1										
Trial 2										
Trial 3										
Group Average										

Table 2: Class Data

Body position	**Class Average Balloon Diameter (cm)**	**Class Average Lung Volume**
Standing straight up		
Twisted upper body		
Bent touching toes		
Sitting in Chair		
Lying Flat on Back		

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)
V. *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 respiration lab conclusion.* ***Answer each question in complete sentences.***

1. Main Idea: Restate your hypothesis AND whether it was supported or not supported by the <u>class average data</u>.

   _____
   _____

2. Evidence:
   a. Summarize what was done in the experiment._____
      _____
      _____
   b. What was the purpose of using the ballon? _____
      _____
      _____
      _____
   c. Based on the class averages, what were the tidal volumes for ALL body position?
      _____
      _____
      _____
3. Link:
   a. Which body position had had the greatest tidal volume average?
      _____
   b. What was the difference in tidal volume between the body position that had the greatest tidal volume and all the other body positions?
      _____
      _____
      _____
   c. Was your class averages similar to your group data? Explain
      _____
      _____
      _____
   d. Define tidal volume:_____
      _____
      _____
   e. Explain the role of the Respiratory system, Including inhaling and Exhaling: Nose, Pharynx, Bronchi, Lungs, and Diaphragm in your response. _____
      _____
      _____
      _____
      _____

   Conclusion: Fill in the blanks

   f. Therefore, _____(Body position)_____, results in the greatest ____(DV)_____, which suggests that this position allows for the _____ to move easily resulting in a larger amount of air being ____(Breath out)_____.

Stamp:

PART I: Final draft

<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 **<u>2 Separate grades</u>***!!!!*

Make sure it follows this order…
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)