3.7	_	
Name:	Date:	Period:
Name.	Date.	I errou.

Pendulum Lab

Pre-Lab

1	Recall t	the	difference	hetween	independent,	dependent	and	control	variables
т.	necan	ше	umerence	perween	maepenaem,	dependent.	anu	COLLUIOI	variables.

2. Brainstorm a list of factors that might affect the period of a pendulum.

3. Identify each of the following (there may be more than one).

Independent Variables	Dependent Variables	Control Variables

Lab Report

Purpose: Write one sentence explaining what you are trying to figure out in this lab. Make sure your purpose includes all of your independent and dependent variables

Hypotheses: Predict what the relationship will be between each of your independent variables and your dependent variable (*i.e. directly proportional, inversely proportional, unrelated*). Make sure to explain why you think each of these relationships will hold.

Example: mass and period will be (choose one: directly proportional, inversely proportional, unrelated).

Hypothesis #1:

Explanation #1:

Hypothesis #2:

Explanation #2:

Hypothesis #3:

Explanation #3:

Period:

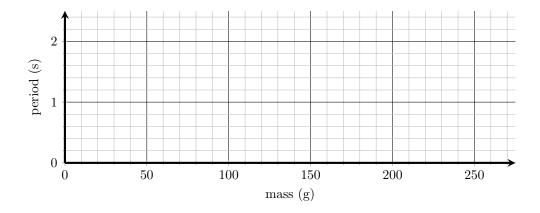
Procedure: Make a brief list of the steps you follow in the lab.

- Make a list of all three experiments that you will perform.
- Explain how, specifically, you will be measuring the dependent variable.
- Explain how many values of each independent variable there will be.

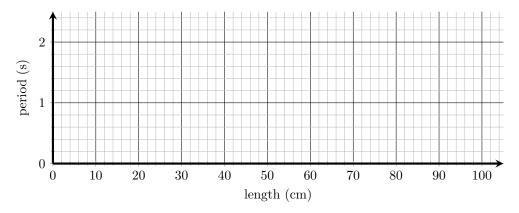
Data: Show all data tables for each of your experiments.

- Be sure that each data table has a descriptive title.
- Be sure that each data table lists the variables you are holding constant and their values
- Make sure all units are labeled. (It is OK to label the units in the table headings instead of in each individual cell)

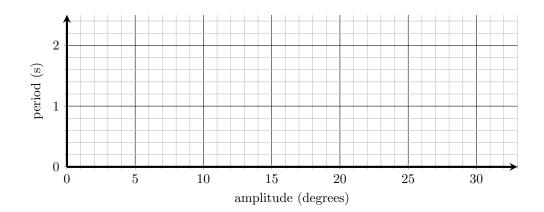
Experiment#1: Mass vs. Period					
Constant Variable	es:				
	П				
	Trial #1	Trial #2	Trial #3	Average	



Experiment#2: L	ength vs.	Period			
Constant Variable	es:				
	П				
	Trial #1	Trial #2	Trial #3	Average	



Experiment#3: A	Amplitude	vs. Period	l		
Constant Variable	es:				
	П			ľ	
	Trial #1	Trial #2	Trial #3	Average	<u> </u>



$rac{\mathrm{desc}}{\mathrm{direc}}$	sults: All you need are three sentences for this section: one for each experiment. Your results should cribe the relationship between each of your independent variables and your dependent variable (i.e. ctly proportional, inversely proportional, unrelated). Example: Mass and period were unrelated.
Ι	Result #1:
I	Result #2:

Date:

Period:

Conclusion and Discussion: Answer the following questions in paragraph form.

• What was the purpose of the lab?

Name:

Result #3:

- How did you go about accomplishing the purpose?
- What did you find (i.e. what affected the period of the pendulum and how did it affect it)?
- What errors came up in this lab and how could you correct them in the future?