Period

Grading Rubric for: <u>La Report: Determining the Acceleration of a Golf Ball While in Nonuniform Motion</u>

Category:	5	3	1
Appearance/Organization	Lab report is neatly typed and	Lab report is neat and	Lab report is neat but does
1 appearance, enganization	uses headings to visually	organized but does not	not include headings or data
	organize the material. Data	include a cover page or	tables do not have borders.
	tables have borders. It also	rubric.	-OR-
	includes a cover page and		Parts are not in order as
	blank rubric is attached.		suggested in the "5"
	Part 1 of the lab report is		category.
	done first, then Part 2 of the		,
	lab report.		
Spelling/punctuation &	One or fewer errors in	Two or three errors in	More than 3 errors in
grammar	spelling, punctuation and	spelling, punctuation and	spelling, punctuation and
	grammar in the report.	grammar in the report.	grammar in the report.
Purpose	Purpose is accurate and is	Purpose is too lengthy.	Your purpose does not make
·· r	clearly stated in your own		sense.
	words and is 1-2 sentences in		
	length. (There is one purpose		
	for both parts—not two		
	purposes. See title of report		
	to give you a clue about the		
	purpose.)		
Drawings/Diagrams	Clear, accurate diagrams are	Diagrams are neat but do	Diagrams are very sloppy
	included and make the	not include enough	and/or very limited. You are
	experiment easier to	information to perform the	missing necessary diagrams
	understand. Diagrams are	lab.	or labels.
	labeled neatly and accurately.	-OR-	
	The procedure is clearly	Missing sketches for one of	
	understood by someone who	the parts of the lab.	
	has never done this lab		
	before.		
Data	All tables are included (3	You are missing one or	One or more of your data
	data tables for Part 1 and 4	more data tables but the	tables are not titled or are not
	data tables for Part 2). Each	ones that are included are	properly labeled.
	table has a title and each	labeled correctly and titled.	
	column is labeled correctly	-	
	with units.		
Graphs	Both of your graphs are	One or more of your	Your graphs are incomplete
-	included and they each have:	graphs have a title, are	due to missing a title or
	a title, x-axis label with units,	completely labeled with	labels or units or best fit line.
	y-axis label with units, and	units, but do not include	-OR-
	best fit line. Your graphs are	the correct trendline.	your graphs are titled and
	in the negative quadrant. You		labeled but you connected the
	included the correct trendline		dots rather than including a
	for each part. Excel was used		trendline.
	to generate these graphs.		
Part 1 Slope calculations	Your slopes are correctly	Your slopes do not	Your slopes are missing
	calculated (as indicated by	increase in magnitude as	units.
	increasing magnitude—	time goes on.	
	indicate the time you		
	calculated each slope for).		
	Your slopes have units.		
Accelerations	For both parts, you used your	One or both of your	You incorrectly determined
	equations from Excel to	accelerations do not	both of your accelerations
	correctly determine your	account for sig figs.	-OR-
	accelerations.	-OR-	Your accelerations do not
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	Your accelerations include	You incorrectly determined	include units

Name Period

Name		Period	
Equations	(1 sig fig for Part 1 and 2 sig figs for Part 2) Your accelerations include direction. Your equations are displayed on the graph. They are modified to be in terms of d and t for Part 1 & v and t for Part 2.	-OR- Your accelerations include the wrong units -OR- Your accelerations due not include direction. One of your equations are still in the form of y and x.	Both of your equations are still in the form of y and xOR- you are missing one of your equations.
Predictions Use your equations from your graphs to make these predictions: Part 1: If the golf ball rolled down the ramp for 2.4 s, what distance did it cover? Part 2: What would the velocity of the golf ball be when the timer reads 1.5 s?	You correctly used your equations to determine these predictions and your work was clearly shown. Units are included when plugging numbers into equation. Units are included in the answers.	You successfully determined only one of these predictionsOR- You did not successfully include units when plugging numbers into your equationsOR- You did not include units in your answers (or the units are incorrect).	You incorrectly determined both of these predictions.
Conclusion	Your conclusion is 3-5 sentences in length and relates the lab to your purpose. It sums up how you accomplished your purpose. (There is only one conclusion for both parts—not two conclusions)	Your conclusion does not sum up how you accomplished your purpose.	Your conclusion is too short and does not sum up how you accomplished your purpose.
Scientific Concepts	Report illustrates an accurate and thorough understanding of scientific concepts underlying the lab.	Report illustrates an accurate understanding of most scientific concepts underlying the lab.	Report illustrates inaccurate understanding of scientific concepts underlying the lab.
Participation	Used time well in lab and focused attention on the experiment.	Used time pretty well. Stayed focused on the experiment most of the time.	Did the lab but did not appear very interested. Focus was lost on several occasions.

Total Possible Points: 60	
Points you earned:	_

Your Percentage: _____