STEM: Roller Coaster Physics Rubric

	3	2	1	0
	Lab notebook is titled "Roller	Students are missing one of	Students are missing more	Student did not
Start	Coaster Physics" with date and	the components addressed.	than one component	complete task.
	page numbers, the background is		addressed.	
	complete, the individual sketch is			
	completed and a materials list is set			
	up.			
2	Individual sketch is titled complete	Students are missing one of	Students are missing more	Student did not
÷	with labels, Collaboration is titled	the components addressed.	than one component	complete task.
tep	and notes are completed.		addressed.	
Ś				
-	Group sketch is complete with	Group sketch is complete but	Group sketch is complete but	Student did not
3-4	labels and all modifications are	missing few labels or	missing many labels and	complete task.
ep	addressed.	modifications were not	modifications were	
St		addressed accurately.	incomplete.	
	Final draft sketch is titled and	Final draft sketch is missing	Final draft is missing most	Student did not
Final Draft	complete with accurate labels	few labels causing a delay in	labels causing a difficult time	complete task.
	addressed in packet allowing for	set up on presentation day.	or inefficient set up on	
	easy set up on presentation day.		presentation day.	
Presentati on and Data	You were a part of the presentation	Students are missing one of	Students are missing more	Student did not
	with accurate explanations using	the components addressed.	than one component	complete task.
	key terms. Your Class Data is titled		addressed.	
	and accurately recorded both			
	qualitative and quantitative data.	During and in interesting and the start of the	During and in most all and the	Church and a los of a state
	Purpose is accurately identified and	Purpose is identified but not	Purpose is not clearly	Student does not
	reflection		identified of explained.	complete task.
	Student uses several (three or	Student uses a (one-two)	Student explains plan but	Student does not
	more) scientific terms to explain	scientific term to explain the	does not use scientific terms	complete task
	the plan of their model.	plan of their model		
	Student clearly explains whether	Student identifies what	Student identifies what	Student does not
	the model did or did not change	changes were made/not	changes were made/not	complete task.
	during construction with a clear	made but does not clearly	made but does not explain.	
usion Reflection	explanation as to why or why not	explain.		
	Each of Newton's Laws was	Each of Newton's Laws was	Newton's Laws were	Student does not
	accurately identified in this lab with	accurately identified in this	inaccurately addressed or	complete task.
	a clear and detailed explanation.	lab. Explanation was not	laws were missing from	
		detailed.	explanation.	
	Student accurately identified the	the basic understanding of	Energy was inaccurately	Student does not
ncl	a clear and detailed explanation	energy in this lab	addressed.	complete task.
S		Explanation was not		
		detailed.		
	Student gives a detailed	Student gives explanation as	Student doesn't clearly	Student does not
	explanation as to what could have	to what could have been	identify what could have	complete task.
	been done to make his or her roller	done to make his or roller	been done to make roller	
	coaster better by addressing	coaster better. Addresses	coaster better. Doesn't fully	
	specific groups outcomes and	what advice he or she would	address what advice he or	
	addresses what advice he or she	give to an amusement park	she would give.	
	would give to an amusement park	engineer.		
	engineer.			

For every day late -3%