

Physics

Rubric

Lab - Free Fall		42
Purpose:	To measure the acceleration of gravity using a tape timer	(+1)
Materials:		(+1)
Picture of Apparatus		(+1)
Procedure:	Calibration of the tape timer Measuring the Acceleration of Gravity	(+3)
Data:	Calibration Table -	(+1)
	Data Table -	(+6)
	-Tool Unc.	(+1)
	-Format -	(+1)
Analysis:	graph of dist. v. time	(+4)
	•data, best fit, equation, labels, format	
	graph of speed v. time	(+4)
	•data, best fit, equation, labels, format	
	graph of accel. v. time	(+4)
	Calculations -	
	Dots/sec (+1)	
	chg. in distance (+1)	
	speed (+1)	
	chg. in speed (+1)	
	accel (+1)	
	average v and a (+1)	
	% error (+1)	(+4)
	<i>error propagation</i>	(+2)*
Questions:		(+6)
Error Analysis:		(+2)
Conclusion:		(+3)
Extension:	<i>Acceleration of gravity with a photogate</i>	(+1)*