(This lab tests the same skill based learning targets as the other labs but is specific to the energy unit – data collection is from video analysis)

Title of Experiment: _____

Wild Guess Statement: _____
Wild Guess Prediction: _____

Research Question:

_____

_____

Hypothesis: Graph form: In Words:

_____

_____

IV:	Controls:
	(With Numbers)
_____	
DV:	

Procedure:

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Height (m)	Distance (m)	Time (s)	Final Velocity (m/s)	Gravitational Potential Energy $(kg*m^2/s^2)$	Kinetic Energy $(kg*m^2/s^2)$	Total Energy $(kg*m^2/s^2)$
1	1					
0.8	1					
0.6	1					
0.4	1					
0.2	1					
0	1					

Equation: =

_____   _____

Graph:

Height
(m)

Final Velocity (m/s)

Conclusion needs to include:
1) Pattern found; 2) Relationship between variables; 3) Mathematical formula; 4) Data driven prediction and confidence; 5) Reasoning for the level of confidence; 6) What is another experiment that could build off this research? (Your research extension question)

Conclusion:_____

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