(This is the STEM version template for the energy unit – data collection is from video analysis)

Title of Experiment:		
Wild Guess Statement: Wild Guess Prediction:		
Research Question:		
Hypothesis: Graph form:	n Words:	
	IV:	Controls:
	DV:	(With Numbers)
Procedure:		

Height (m)	Time (s)	Velocity (m/s)	Acceleration (m/s²)	Gravitational Potential Energy (kg*m²/s²)	Kinetic Energy (kg*m²/s²)	Total Energy (kg*m²/s²)
1	0	0	0		0	
0.8						
0.6						
0.4						
0.2						
0						

Equation: =

Graph:

Gravi tatio nal Pote ntial Ener gy (kg*m 2/s²)

Kinetic Energy (kg*m²/s²)

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) Redesign- if you were to redesign this experiment, what
enhancements would you make? 7) Describe a real life application of the concepts explored in this lab.
Conclusion: