Name: _____
Date: _____
Period: _____

Lab - Potential Energy & Velocity

Question: How does the amount of Ep affect the velocity of a falling ball?

Hypothesis: If, Then, Because & Use Ep & Ek _____

Procedure to collect an accurate velocity at the bottom of your ramp.

Data:

Height of Drop	Trial	Distance Ball travels	Time at Start	Time at End	Difference in time	Speed
	1					
	2					
	3					
	1					
	2					
	3					
	1					
	2					
	3					

Analysis:

Mass of Ball	Height of drop	Velocity of Ball at Bottom of Ramp			Average Velocity
		Trial 1	Trial 2	Trial 3	

Mass of Ball	Height of Drop	Potential Energy Ep = mgh	Average Velocity	Kinetic Energy Ek = ½ mv^2

Conclusions:

Data to Support Hypothesis: _____

Potential Errors & their Effect: _____

Next Step: _____

Name: _____
Date: _____
Period: _____

Lab - Potential Energy & Velocity

Data:

Height of Drop	Trial	Distance Ball travels	Time at Start	Time at End	Difference in time	Speed
	1					
	2					
	3					
	1					
	2					
	3					
	1					
	2					
	3					

Analysis:

Mass of Ball	Height of drop	Velocity of Ball at Bottom of Ramp			Average Velocity
		Trial 1	Trial 2	Trial 3	

Mass of Ball	Height of Drop	Potential Energy $Ep = mgh$	Average Velocity	Kinetic Energy $Ek = ½ mv^2$