Name: _____

Date: _____

Period: _____

Project #2 - Book #1

       Title: Lab - Speed of a falling Object

Question: Does the Height from which an object falls affect its speed?

Hypothesis: If I make an object fall from increasing heights, then _____
_____ , because _____
_____
_____
_____

Procedure:
1. Gather Materials: ball, meter stick, stopwatch
2. Tape meter stick vertically to the side of a table
3. Hold ball at 1/2 meter
4. Drop ball & start stop watch simultaneously
5. Stop Stopwatch when ball strikes ground
6. Repeat steps 3 - 5 3 times
7. Repeat procedure for a ball dropped from 3/4 of a meter
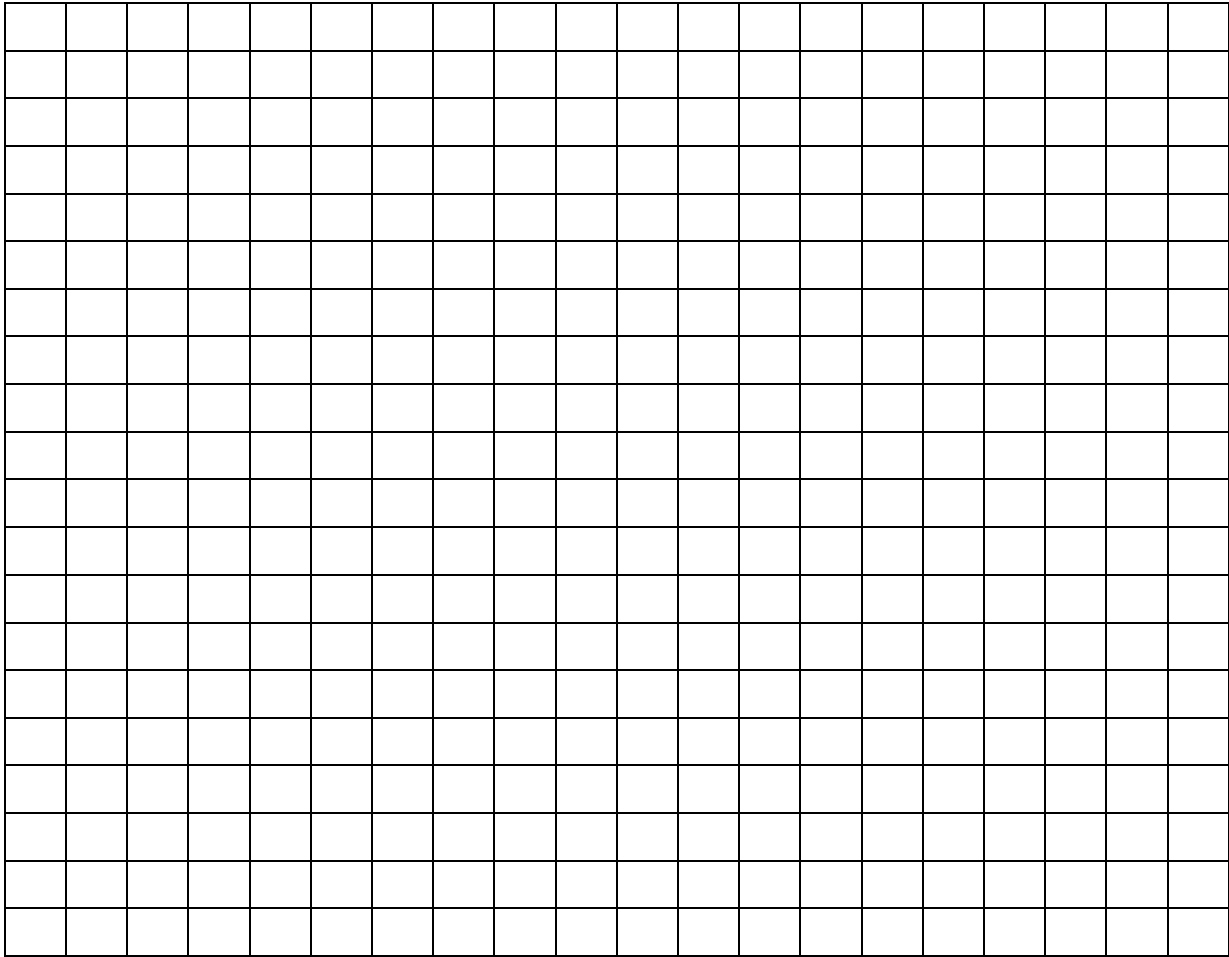8. Repeat Procedure for ball dropped from 1 meter.

Data:

Height of drop (m)	Time of Drop (seconds)			Average Time of Drop (seconds)
	Trial 1	Trial 2	Trial 3	
0.5				
0.75				
1.0				

Data Analysis:

       Calculate velocity for each height, use the formula $v=d/t$

Graph Height of Drop (independent variable) versus Velocity of Ball (dependent variable)

Conclusion: (written in paragraph form)

    1. Restate your hypothesis, were you right or wrong, use data to support this claim.

_____
_____
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    2. Sources of error - Experimental vs. human, what impact do they have on your results, how can they be controlled in the future

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    3. What is the next step? What did we learn from doing this experiment? Now, besides redoing your lab, what else could we learn about the topic (falling objects) what question would you try to answer, what is your hypothesis, briefly, how would you test (experiment) this?

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