111 physics500 lab notebook

1) All information ***must*** be recorded in your lab notebook.
2) Follow the format presented to you on the board for writing in your lab notebook and have me sign at the end of the lab.
3) All experiments must have a
    a. TITLE
    b. PURPOSE
    c. HYPOTHESIS
    d. EXPERIMENT (section)
        i. EXP 1
        ii. EXP 2
        iii. etc
4) Calculations must show the FORMULA before numbers are inserted, to assure dimensional analysis
    a. Speed m/s = distance ÷ time ~
    b. 1.21m/s = 5.00m ÷ 4.12seconds
5) You MUST show how you do your calculations for at least 1 of the problems of each type (example given in class).
6) You MUST have units with numbers (g, cm, ml etc.)
7) Rules for significant figures and scientific notation apply to all numbers; if number is exactly 5m and you can have three significant figures then it should be 5.00m.
8) Tables should be drawn using the block grids (see below for table layout)
9) The lab notebook should be legible! This means… I should be able to read it.
10) Lab grades (besides a formal lab write up) will also have a Lab notebook grade, due the day of the lab report.
11) Experiments should be diagramed with a flowchart (example in class), to show the thinking behind the process.

Dr. Duick ***Name:_____***

Table 1: Data from outside

Participant	***Activity***	***Distance***	***Time Trials 1,2,3***			***Average time***	***Rate m/s***
1	*Hopping*	*4.00m*					
2	*Hopping*	*4.00m*					
3	*Hopping*	*4.00m*					
1	*Walking backwards*	*4.00m*					
2	*Walking backwards*	*4.00m*					
3	*Walking backwards*	*4.00m*					
1	*Crawling*	*4.00m*					
2	*Crawling*	*4.00m*					
3	*Crawling*	*4.00m*					

Table 1: Experiment 2 data on unknown distance

Name	Activity	Time Trial1	Time Trail2	Time Trial3	Average time[A]	AVG Velocity[B]	Distance[C]	% Error[D]
	Hopping							
	Walking backwards							
	Crawling							

[A]= (Time1 + Time2 +Time3)/3

[B]= From Graphs 1,2,3

[C]= Average time x Velocity

[D] = $$\text{Percent error} = \frac{(\text{observed value - true value})}{\text{true value}} \text{ x } 100$$