



Lab Notebooks



Critical for establishing "prior art" Significant evidence in civil litigation

Vital accurate records be kept in clinical situations 1876 - Bell Invents "harmonic telegraph"

1876 - Elisha Gray files brief for telephone patent 3 hours before Bell 1871 - Telephone invented by Antonio Santi Giuseppe Meucci (did not file a patent)

Bell fortune based on patent application & lab notes: "simultaneous transmission of multiple harmonic tones, possibly even the human voice."



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Legal Documents



Must be:

In pen (Blue or black ink; never red ink!) Consecutive, pre-numbered pages (often accountants' ledger) Witnessed

Understandable to someone "skilled in the art"



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Lab Notebooks

Inside cover: Your name & contact information Your instructor's name, the course/ section #, & your lab meeting time

Table of Contents:

Date, title, & page numbers for each week's lab report Each week you should update the Table of Contents

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Writing in the Notebook

Insert the back cover under the copy sheet before writing on a page Top of each page:

Lab #, title, date, your name, name(s) of lab partner(s), course & section #

All data must be entered with ink directly into the journal Errors corrected by drawing a line through the mistake



Before leaving: Tear out the original pages, staple and give to your instructor to grade Trim the edges

Save the copy in your journal as a record of your work.

3,23

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Fag	ge 1: Safety	y Agreement	
I have viewed the ACS	DVD on Chemica	al Safety	10
I understand a seat in the	he laboratory of	CEM 101 is continge	ent upon:
Arriving on time I ac Following all safety rule	cknowledge the p es as defined by t	olicy of denying a se he instructor:	at for late arrivals
Dressing appropriately	as defined in th	e lab briefing	
Leaving all food and b	everages out the	lab (or concealed in	backpacks)
Leaving all electronic of Turning off all cell-pho	devices (except ca	alculators) in the sto	rage area.
Never returning reage	nts to original bo	ttles	
Wooring sofety goggle	alas to original bo	lviced to do co by the	instructor
Leaving the lab bench	clean	wised to do so by the	



Required Sections Your words (Based on lab handout) PROCEDURE: (2 points) Step-by-step list of things you plan to do during the lab Short, "to do" list



DATA: (4 points) Tables before class; data during class Record all pertinent information & numerical (quantitative) observations All measurements with units to the correct number of significant figures Report any qualitative (non-numerical) experimental information in sentences Record what you observe in as much detail as is practical

CALCULATIONS: (4 points) Correct significant figures & unit labels

Should not be more than a page

RESULTS/DATA INTERPRETATION: (4 points)

Tabulate the answers to all the calculations Any needed graphs or charts

CONCLUSION: (4 points) Use complete sentences to describe what you learned, determined, or discovered You must answer the question posed in the purpose of the lab

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PURPOSE: (1 point)

BUBBOOD (4 1 0	le the second
Why	
PROCEDURE: (2 points) How	Before Clas
DATA: (4 points) Tables before class; data during class	
What was observed / measured CALCULATIONS: (4 points) Arithmetic on data with appropriate units and sig figs RESULTS/DATA INTERPRETATION: (4 points) Summary / Graphs	During Class
CONCLUSION: (4 points) Answers Purpose	
Questions: (5 points) Tests Understanding of lab principles Helps prepare to answer exam problems	one before class
Done independently ('cause exams are done independently	y)



































Notebook Pages should include:

Purpose: What you intend to accomplish by doing today's lab work
Procedure: What you will do
Data: Record your measurements / observations
Calculations: Show any calculations
Results: Report in an organized table
Conclusion: Describe paper towel brand strength & absorbency



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