



## How Can I Learn More AND Learn More Quickly?

**Attend every class ... be present, on time, bring appropriate handouts, homework ...**

1. Capture comments on paper that are written or discussed by professor. Important things to capture-
  - ✓ content ...rules, steps, definitions, graphs, etc
  - ✓ Example problems ... include any strategies for solving this type of problem; how this type differs from similar types, how to recognize this type of problem (key phrases, words, disguises...)
  - ✓ pitfalls and how to avoid them
  - ✓ all questions asked by professor
2. Before or after class (whichever utilizes your time the most efficiently) read specific sections in the book and work examples in that section as you read. If you read before class, save space for class notes. If you read after class, save space in you class notes to add text notes.
3. Work all assigned homework problems. If solutions are available, consult them only after you have spent an appropriate amount of time working on the problem. When you do consult solutions note where/why you got stuck and couldn't finish the problem. Then identify the information mentioned above for example problems. Also consider working the text problem that "matches" the assigned problem for extra practice. The odd number problems have "matched" even problems one digit higher. Problem 15 is matched with problem 16, etc.
4. Prepare a TIP sheet for each chapter. Identify any constants or formulas that you must commit to memory. Write summary statements for all major concepts when you finish the chapter. Compile the list with your group/professor.
5. Consult another text for an alternative explanation. You could also consult the Prep text and notes if you've taken Chem. 1405 Prep.
6. Before each test, REWORK all quizzes from those chapters the test covers.
7. Work the sample test AFTER you ... study class and text notes, review homework problems, work matched problems, have all your questions answered. When you work the sample test, you should not consult notes, text or people, until you've worked for more than an hour. Taking a sample test is NOT equivalent to studying for a test. Don't expect a sample test to contain all types of questions discussed in class or found on homework. The professor has to make decisions based on time constraints, amount of time spent on concepts, and a variety of other factors to compile a test. Don't expect to find every type of problem on your test (you wouldn't be able to finish it). Therefore, sample tests will not have every type of problem either.
8. After a test is returned, make corrections without consulting notes, text, people, or answer key. Do not erase any incorrect work. Write in a different color so that you will know what changes you've made. After you've exhausted your own knowledge and problem-solving ability, then ask for help or consult the answer key.
9. Revise your TIP sheet after you finished all activities associated with a chapter... homework, quizzes, test, test corrections... What else have you learned that you want to review at a later time?

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