

## **Learning Assistance Study Tips**

## Math Strategies & Study Tips

#### **HOW TO STUDY IN A MATH CLASS:**

- Before starting a new course, review the math from your previous one.
- Do not fall behind.
  - If the class seems easy, remember math classes start with a review then move into high gear.
- Think of math as time-consuming rather than difficult.
  - This will give you a sense of control over your performance in the course.
- Read or scan the chapter before your lecture and read again afterward.
  - Read your book as a reference book to help you understand the math problems.
- As you read your text, do the computations along with the book.
- During a lecture, write down <u>everything</u> the professor writes down.
  - If he/she uses different colors of ink, do likewise.
  - Write down each step. You may find yourself confused later on and need those notes.
- Memorize math symbols and definitions
  - <u>Understand</u> the underlying processes and concepts.
  - What is the purpose for each step?
- Still need help? Consult a different book, a tutor, or the instructor.

### **HOMEWORK:**

- Do your homework right after class if possible while the concepts are still fresh.
  - Do not procrastinate! The weekend might be a great time to write an essay, but during the week keep up with your math.
- Begin by reviewing your lecture notes.
  - Work the example problems on your own.
  - Check your answers with the ones in your notes.
- Try sitting down with a classmate to do your homework
  - Use the Learning Resource Center.
  - Work individually consulting each other only as needed.
- Check your first answers in a given section before doing a whole set of problems.
  - o If you make mistakes, check the steps. Make mental notes to avoid similar errors again.
  - o If you are stuck, consult with another student or a tutor.
- When working on homework, try to do all of the assigned problems.
  - If you need help, talk to your instructor or a tutor
- Read each problem slowly and carefully.
- Summarize word problems

# MSJC MT SAN JACINTO COLLEGE

### **Learning Resource Center - Math Center**

- Draw a diagram or set up the information in a table.
- o Sort out the problem into given, find, need.
- For difficult word problems or if you forget a formula, substitute simpler numbers.
- At the end of a homework session, mentally review the most important concepts.

### STUDYING FOR MATH TESTS:

- Your first test will be the easiest. DO NOT get overconfident.
- That A on the first test may offset lower grades later in the semester.
- Doing well on homework and/or quizzes is no guarantee of doing well on an exam.
  - Tests can be more challenging than a sequence of quizzes
  - a test is harder to finish in time
  - The problems are presented in a random order.
    - You must be able to *quickly* decide the nature of a problem and the best approach.
- Write up a summary sheet of key formulas and definitions.
- Attend review sessions and take plenty of notes.
- Review all of your quizzes and rework the problems.
- Study by working mixed sets of problems.
  - Use chapter reviews, old tests, and/or review books.
  - You should have worked on so many problems that the material is now easy for you.
- Do some timed practice tests or sets of problems.
  - Find some application problems with difficult or confusing wording.
  - Mimic the testing situation as closely as you can while you work on practice exams.
- After doing several *full* practice tests, you might want to expose yourself to the greatest possible variety of word problems by doing only the first step of additional problems.
- During your practice, check all results.
  - Use some of the following methods:
    - Plug your answer back into the problem
    - Estimate the answer to make sure you are in the right ballpark.
    - Double check units and positive and negative signs.

### **TAKING MATH TESTS:**

- Get plenty of sleep the night before the test.
  - Sleep is essential for higher order thinking.
- When you get the test, write down formulas you might forget.
  - Look at the points given for each problem
  - o How to get the most points in the guickest amount of time?
  - o Begin work on the easiest problems or the ones worth most points.
- Expect a few extremely difficult problems.
  - o Skip and return to them at the end of the test; you may have gained new insights.
- Clearly write out each step; even if you miss the answer you may earn partial credit.





### **AFTER THE TEST:**

- Rework any problems you missed
  - o Find out what went wrong
  - o Use this to help you study for future tests