

## OUR GOAL

The goal of Project COMPASS is to expose students to the integration of mathematics and technology. The Texas Instrument TI 89 graphing calculator will be used to develop the connections between analytical methods and graphical representations of solutions to problems from higher-level mathematics. Sponsored by the UCR's Alpha Center, students receive instruction in mathematics, in technology, and how to combine both to develop a deeper understanding of critical thinking.

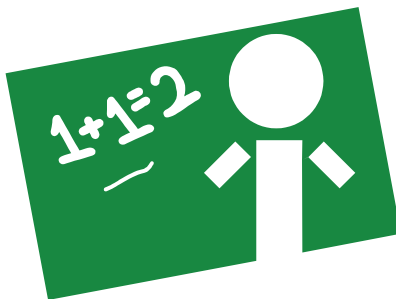


"I know how to use a TI-89 calculator, can graph efficiently, have a broadened algebraic vocabulary, and have become better acquainted to quicker/more sufficient skills of solving equations on a calculator."

-Participant

"COMPASS helped me understand math concepts and how to integrate technology with math."

-Participant



### FOR MORE INFORMATION CONTACT:

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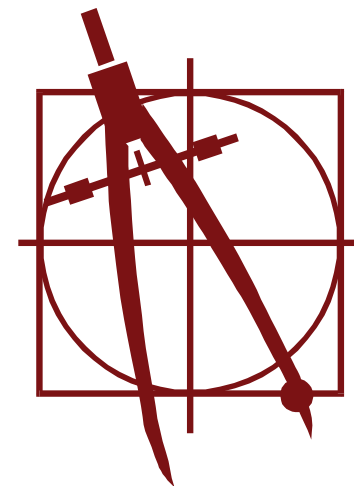


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Additional information about COMPASS is available on the ALPHA Center website at [www.alphacenter.ucr.edu](http://www.alphacenter.ucr.edu)

# COMPASS

## Content Opportunities in Mathematics Program for All Secondary Students



**ALPHA Center**  
Academy of Learning through  
Partnerships for Higher Achievement  
University of California, Riverside

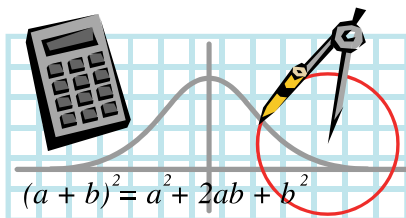
# Content Opportunities in Mathematics Program for All Secondary Students

## PARTICIPANTS

COMPASS is a weeklong program, with two follow-up sessions, designed for students who have successfully completed Algebra I and will be enrolled in high school for the 2001-2002 school year.

Students must be going into grades 9-12 and must have taken Algebra I and earned B's or better in all of their mathematics classes.

Interested students must fill out an application form, must have a teacher recommendation and parent permission. Students or their parents are responsible for transportation to and from the program.

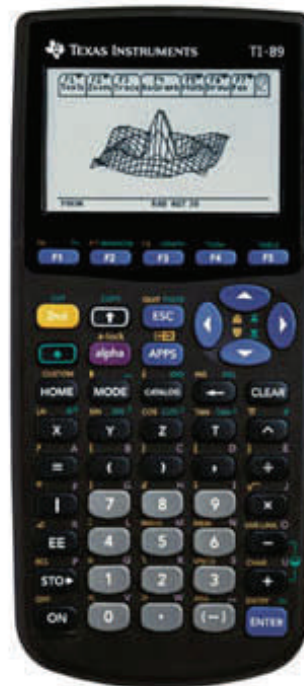


## TECHNOLOGY

Project COMPASS aims to teach students, with advanced mathematical skill interest, how to maximize the use of technology in their learning.

Project COMPASS demonstrates and facilitates the connection between particular analytical methods of problem solving and the use of the TI 89 graphing calculator to derive solutions to multi-step problems.

Participants receive a new TI 89 graphing calculator to be used during the institute which they may keep for further use and study.



## CURRICULUM

Topics covered during the week may include, but are not limited to the following:

- Graphing
- Systems of Equations
- Functional Behavior
- Programming
- Sequences and Series
- Symbolic Manipulation
- Binomial Theorem

