



Algebra2go™

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COURSES

PREALGEBRA
BEGINNING ALGEBRA

MODULES

ALLIED HEALTH
COMPUTER SCIENCE

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CAHSEE RESOURCES
TRANSFER RESOURCES
STUDY TIPS

TEAM

LARRY PEREZ
CANDICE HARRINGTON
PATRICK QUIGLEY
Algebra2go Scholarship



Welcome to **Algebra2go™**.

Whether you are attending a math class at Saddleback College, taking a math class at another

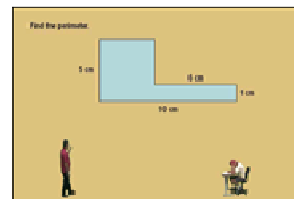
school, or just need to refresh your math skills for a business or science class, we have tools that can help.

All these resources are free thanks to the support of Saddleback College, the California Basic Skills Initiative, and the Saddleback College Foundation. We have many distinct categories of resources. Whichever materials you decide to use, we would appreciate your feedback. Please let Professor Perez know what you liked and didn't like about these materials by sending him an e-mail.

Para notas en
Español
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Video Lectures

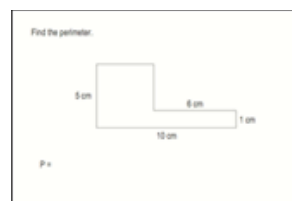
Our most popular tool is the video lectures where you can attend Professor Perez's virtual classroom alongside his favorite student, Charlie. Each short video focuses on a single topic, so you can pick and choose the ones you need. They are available on YouTube and on TeacherTube as well as this site.



Video Worksheets

Every video is accompanied by a worksheet that mirrors the presentation so you can work along with Charlie. Students

tell us that this active learning process is a good way to improve understanding and increase retention.



Homework Sets

Professor Perez has also put together a collection of homework problems and solutions for most of the videos. These

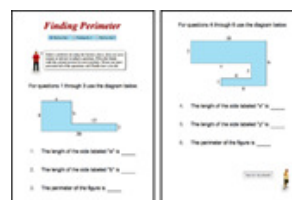
short problem sets provide an opportunity to practice the skills demonstrated in the video presentations.



Topic Quizzes

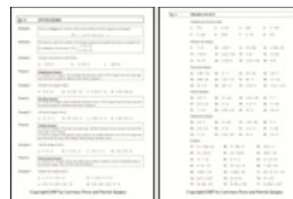
Most of the videos are accompanied by a set of three online practice quizzes so you can determine when you are ready to

move on to the next topic. Just fill in the blanks with the correct answers to each question. When you finish, Charlie will let you know how you did.



Study Guide

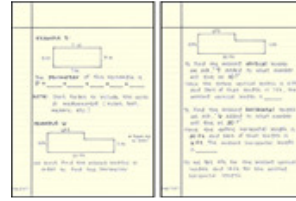
Our exam preparation sections include the



the complete [P/Q Study Guide](#). The study guide was developed by Professor Perez and Patrick Quigley specifically to prepare students for the CSU Entry-Level Math Exam (ELM), but we have also found it a good match for the California State High School Exit Exam (CAHSEE).

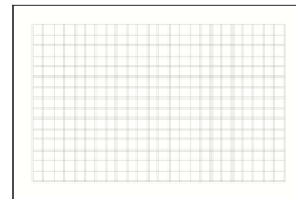
Class Notes

We have complete sets of notes for our pre-algebra and beginning algebra courses. The notes are neatly handwritten for that personal touch. For prealgebra we also have the notes neatly handwritten in Spanish.



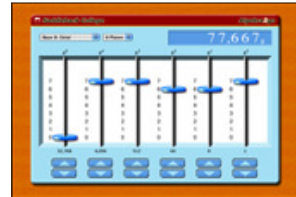
Templates

These are resources like blank graph paper or blank number lines. They can be printed and used to practice problems from particular topics.



Web Tools

For some topics we have web tools to help you master the math. These are interactive web pages which are available online. An example is our virtual abacus.



Full Courses

Ultimately we plan for the **Algebra2go™** materials to span the curriculum from arithmetic to college algebra. Students will have support for every step from high school to either a university or to the workforce. Currently we have two courses worth of material available.

Pre-algebra

Pre-algebra is the centerpiece of this project. We have nearly complete sets of notes, videos, video worksheets, problem sets, and online quizzes. Pre-algebra focuses on the fundamental concepts necessary to make the transition from arithmetic to algebra. The major topics covered are: addition and subtraction, multiplication and division, integers, fractions, variable expressions and equations, decimals, ratios, proportions, and percent, and conversions.

Beginning Algebra

Beginning algebra is not as complete as pre-algebra, but changing that is next on our to-do list. Still there is a complete set of notes and a considerable number of videos available. These videos have proven to be among the most popular at Professor Perez's YouTube site. In beginning algebra you master the basic tools necessary to solve algebraic problems. The main topics covered include: the real number system, linear equations in one variable, linear equations in two variables, systems of linear equations and inequalities, polynomials, rational expressions, radical expressions, and quadratic equations.



Contextualized Modules

We are interested in helping students beyond the doors of the math classroom. To that end we have developed some contextualized learning modules which provide support for students entering non-math classes which rely heavily on prior math knowledge. This assists students who may not have had a math class in a while, and also provides current math students with examples of the skills they are learning can be applied to other subjects.

Allied Health

This module was created to assist allied health students entering Saddleback college's chemistry 108 class, this page has links to materials reviewing the math skills necessary for entering this class. The topics covered include:

measurement and unit conversion, and logarithms. The student response to this module has been very gratifying.

Computer Science

Our newest contextualized learning module focuses on the skills needed for success in Saddleback College's computer science 1A and 3A classes. The focus is on performing operations in different bases. We have materials on base 10 operations as well as other bases.



Exam Preparation

Part of helping students bridge the gap between high school and university levels is helping them pass the exams which occur at each major transition. By re-organizing the materials created for pre-algebra and beginning algebra, we have created pages to assist students in their test preparation.

CAHSEE Resources

Students take the California High School Exit Exam (CAHSEE) at the transition point between high school and our two-year college. We have put together a set of resources which cover the following topics: [numerical operations](#), [variable expressions](#), [equations](#), [inequalities](#), [relations and functions](#), [geometry](#), and [probability and statistics](#).

Transfer Resources

When students transfer from a two-year college to a four-year college, they are often required to take a math placement exam of some sort. We have put together a course to prepare students for the CSU Entry-Level Math Exam (ELM). We have found that many other placement exams assess similar content areas. We currently provide support for [numerical operations](#), [variable expressions](#), [equations](#), [inequalities](#), [relations and functions](#), [geometry](#), and [probability and statistics](#).

Study Tips

We have put together a collection of study tips for math classes. We have tips on how to get the most out of your [textbook](#), [lectures and homework](#) as well as suggestions for [preparing for exams](#) and [taking exams](#).