

## Pre-algebra Course Outline

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### Course Summary:

Pre-algebra offers an attempt to bridge the gap between arithmetic and introductory algebra. Mastery of pre-algebra skills is a stepping stone to a successful Algebra-I experience. Topics include whole numbers, decimals, fractions, equations, inequalities, integers, rational numbers, number theory, ratio, proportion, percent, consumer math, probability, statistics, geometry, measurement, perimeter, area, real numbers, surface area, volume, coordinate geometry, polynomials, rational expressions, and linear relations.

### Goals:

- ✓ Students will develop and enhance algebraic problem-solving strategies.
- ✓ Students will master necessary mathematical skills for placement into Algebra-I.
- ✓ Students will develop a high level of mathematical success during the learning process.

### Text:

New Progress in Mathematics with Problem Solving, (Grade Eight text) Sadlier-Oxford Publisher

### Resources:

Calculators, manipulatives, various workbooks, Academic Decathlon logic tests, various math videos.

### Projects:

Solve Academic Decathlon logic problems, encounter a sample high school Exit Exam, and Cal Poly's Algebra Readiness Test.

### Assessment:

Homework, tests, DQ's(extra credit).