

Algebra-I Course Outline

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Course Summary:

Algebra-I places emphasis on the connections between equations, tables and graphs by art of teaching that addresses collaborative learning and terminology. Mastery of Algebra-I skills is a stepping stone to a successful experience in geometry. Topics include linear equations and inequalities in two variables, systems of linear equations, exponents and polynomials, factoring, rational expressions, roots and radicals, and quadratic equations.

Goals:

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

Text:

Beginning Algebra. A Text/Workbook, sixth edition, Thomson Learning, Inc., Charles P. McKeague, 2003.

Resources:

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

Projects:

Solve Academic Decathlon logic problems, encounter a sample high school Exit Exam, Cal Poly Geometry Readiness Test, and MCP's Algebra-I final exam.

Assessment:

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