

Course Title

2-Year Algebra 1C

Description of Target Group

This course is a continuation beyond 2-Year Algebra 1B. Students enrolled in this course generally are unable to grasp algebraic concepts at a rapid pace, and therefore, require maturation prior to progressing to the course in geometry. Students who have had difficulty with regular Algebra 1A should enroll in 2-year Algebra 1A & 1B the first year and 2-year Algebra 1C & 1D the second year. Students that have completed 2-year Algebra 1C and 2-year Algebra 1D have met the rigorous requirements of Algebra 1A/B. Credit will constitute the A-F college entrance requirements.

Purpose

The purpose of 2-Year Algebra 1C is to allow students to complete algebra at a slower pace. Students will learn the concept of real numbers; use of algebra in science; graphing and working with inequalities; products and quotients of powers; powers of products and quotients; meaning of square root; operation of radicals; products of factoring polynomials; graphing and functions of ordered pairs; domain and range; graphing of linear functions by different methods; and use of functions or formulae. This is the third semester of a four semester course.

Standards of Expected Student Achievement

Upon completion of this course, students will be able to successfully demonstrate the following skills:

1. Solve and graph inequalities.
2. Work with powers and roots.
3. Obtain polynomial products, factor polynomials.
4. Develop in the use of linear functions and use them as formulae.

Instructional Materials

Text and Supplementary Materials

Refer to: Secondary Adopted Texts and Approved Supplementary Books Used in the Santa Maria Joint Union High School District

Activities

1. Individual work
2. Lectures
3. Class participation
4. Demonstrations
5. Audio-visual materials
6. Field trips
7. Small group activities
8. Outside resource people

2-Year Algebra 1D

Description of Target Group

This course is a continuation beyond 2-Year Algebra 1C. Students enrolled in this course generally are unable to grasp algebraic concepts at a rapid pace, and therefore, require maturation prior to progressing to the course in geometry. Students that have completed 2-year Algebra 1C and 2-year Algebra 1D have met the rigorous requirements of Algebra 1A/B. Credit will constitute the A-F college entrance requirements.

Purpose

The purpose of 2-Year Algebra 1D is to allow students to complete algebra at a slower pace. Students will learn methods for solving systems of linear equations and inequalities; application of four fundamental operations of rational depressions; quadratic equations, and truth sets for these functions; and elementary properties of angles, segments, and trigonometry relations. This is the fourth semester of a four semester course. Upon successful completion of the four semesters this course will provide one year toward the A-F mathematics requirements for college entry.

Standards of Expected Student Achievement

Upon completion of this course, students will be able to successfully demonstrate the following skills:

1. Solve systems of linear equations and inequalities.
2. Show competence working with rational expressions (add, subtract, multiply, and divide).
3. Graph quadratic functions, find the zeros of the quadratic polynomial and show competence in working with the quadratic formula.
4. Develop the ability to apply simple geometric and trigonometric relations to problems.

Instructional Materials

Text and Supplementary Materials

Refer to: Secondary Adopted Texts and Approved supplementary Books Used in the Santa Maria Joint Union High School District

Activities

1. Individual work
2. Lectures
3. Class participation
4. Demonstrations
5. Audio-visual materials
6. Small group activities
7. Outside resource people