

St. Paul's Preparatory Academy
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2011-2012 School Year

Algebra 2 Syllabus

Course Overview

A course designed to guide students in (1) understanding patterns, relations, and functions, (2) to represent and analyze mathematical situations and structures using algebraic symbols, (3) using mathematical models to represent and understand quantitative relationships, and (4) analyze change in various contexts.

Course Responsibilities

Students are expected to participate in the classroom practice of math. This may involve chalkboard, oral, and written assignments during the class period. Students are to maintain a positive attitude and complete their work in a neat, organized, and punctual fashion. Students will have daily homework assignments. Parental supervision to make sure that homework is completed is encouraged.

Course Objectives

The objective of this course is to prepare students for upper level Algebra through the learning of everyday, practical mathematic applications.

Course Curriculum

Glencoe McGraw-Hill. Algebra 2, 2003

Supplies Needed

- One three-ring binder with a section dedicated exclusively to Math
- Loose leaf notebook paper for homework and daily notes
- Two number two pencils with erasers
- Textbook
- Graphing Calculator (TI-83 Recommended)

Course Requirements

Students will have daily assignments from the Glencoe textbook. The completion of these assignments is to be neat, organized, and on time. Failure to meet these requirements will result in a grade of a '0' for that particular day or that particular assignment. Quizzes will be given periodically. Every third Tuesday there will be a test given covering the relevant chapter. Every semester there will be a cumulative exam given. The binder will be brought to class everyday, as notes will be taken daily.

Homework

It is each student's responsibility to record assignments and to complete assignments on time. A student will receive a '0' for an incomplete or missing assignment. Students may turn the assignment in one day late for a 50.

Class Rules

- Students will raise their hands to speak in the classroom.
- Students will ask permission to leave their seats for any reason.
- Students will maintain honesty and integrity in the classroom. Cheating will not be tolerated.
- Bathroom breaks are **not** allowed during class. Only in emergencies will students be allowed out of class.

Grading Scale

Homework/Class work	25	A 93-100
Quizzes	20	B 83-92
Tests	40	C 75-82
Prompt & Prepared	15	D 70-74
		F 0-69

Online Study Tool Resources:

- www.algebra2.com/extra_examples
- www.algebra2.com/self_check_quiz
- www.algebra2.com/vocabulary_review
- www.algebra2.com/chapter_test
- www.algebra2.com/standardized_test

Course Outline

First Semester

First 9 Weeks (1st Quarter)

Week 1-2: Chapter 1: Solving Equations and Inequalities
Chapter 1 Test: September 13

Week 3-5: Chapter 2: Linear Relations and Functions
Chapter 2 Test: October 4

Week 6-8: Chapter 3: Systems of Equations and Inequalities
Chapter 3 Test: October 25

Week 9-11: Chapter 4: Matrices

Second 9 Weeks (2nd Quarter)

Week 12-14: Chapter 4 Test: November 15
Chapter 5: Polynomials

Week 15-17: Chapter 5 Test: December 6
Chapter 6: Quadratic Functions and Inequalities

Week 18: Semester Exam: Chapters 1-6
January 10
Chapter 7: Polynomial Functions

SECOND SEMESTER:

Third 9 Weeks (3rd Quarter)

Week 19-20: **Chapter 7: (cont'd)**

Week 21-23: Chapter 7 Test: January 31
Chapter 8: Conic Sections

Week 24-26: Chapter 8 Test: February 21
Chapter 9: Rational Expressions and Equations

Week 27-29: Chapter 9 Test: March 20
Chapter 10: Exponential and Logarithmic Relations

Fourth 9 Weeks (4th Quarter)

Week 30-32: Chapter 10 Test: April 10
Chapter 11: Sequence and Series

Week 33: Chapter 11 Test: May 1
Chapter 12: Probability and Statistics

Week 34: Chapter 12 Test: May 8
Chapter 13 & 14: (Intro to Trigonometry)
Chapter 13: Trigonometric Functions
Chapter 14: Trigonometric Graphs and Identities

Week 35: Chapter 13/14 Test: May 15
Chapters 1-13 Review

Week 36: Final Exam: May 22