

ROSLYN MIDDLE SCHOOL
MATH 8









I. Aims and Objectives

This course is designed to build upon the learnings in Math 7. It will provide the student with an exposure to many different branches of mathematics, with an emphasis on a conceptual understanding of these topics. Problem solving in all units is an important element in this challenging course of study.

In addition to the development of skills necessary for the students' progression to the next level in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. The development of study skills is of paramount importance and is addressed throughout the year. Furthermore, they will learn the importance of being math literate in today's society and the impact of this value on the decision making process.

II. Course Content

The units listed below will be discussed during the course. There are many sub topics that will be developed within each major unit. A more detailed course content is available on the internet at ***www.nysed.gov/3-8/gr8prepost.htm***.

-  Rational numbers
-  Ratio proportion
-  Percentage
-  Introduction to algebra
-  Geometry and measurement
-  Word problem applications which are incorporated into each unit
-  Algebra and coordinate geometry
-  Polynomials - factoring; transformations; graphing linear equations and inequalities.

III. Expectations and Requirements

There are many elements that make up a successful experience in Math 8. Each student should come to class prepared with the correct materials, textbook (***McDougal Littell - Course 3***) notebook, paper, and pencils. In addition, a student is expected to take notes on work done in class, be a participant in classroom discussions, give his or her full attention to the lesson, and complete any assigned homework.

IV. Evaluation System

A student will be evaluated on the basis of periodic tests and quizzes, both announced and unannounced, performance on the final exam, on neat and accurate classwork/notes, and on regular completion of homework assignments.

V. Course Sequence to Follow

Integrated Algebra 1

VI. New York State 8th Grade Assessment Test

All students will be required to take the New York State Eighth Grade Assessment in mathematics in March, 2009.

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