

Sixth Grade Enriched Math Syllabus 2011-2012

Instructor:

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Course Description

This course will develop and refine previous mathematical concepts and continue to build a strong foundation for further mathematical study.

Three essential mathematical ideas, based on NCTM curriculum focal points, will form the foundation of this course. These ideas are as follows: an understanding of and fluency with division of fractions and decimals, an understanding of the concepts of rate and ratio, and the writing, interpreting, and usage of mathematical expressions and equations.

Course Benchmarks

Develops mathematical reasoning to support skill development and conceptual understanding

Exhibit persistence, flexibility, and appropriate independence when solving problems

Organize mathematical thinking by following logical steps and proper technique

Compute proficiently with rational numbers in all forms

Methods of Instruction

A variety of teaching methods will be used to support student learning. These will include modeling, lecture, class discussion, use of technology, small group work, written assignments, and activities with manipulatives. Lessons will be presented with visual, auditory, and kinesthetic methods whenever possible. Students will be encouraged to work together and to communicate their ideas verbally and in writing. Individualized instruction will be offered when appropriate.

Course Materials

Required textbook: On-Level: *Mathematics, Course 1* (Prentice Hall)

Enriched: *Mathematics, Course 2* (Prentice Hall)

Assessments

Students will demonstrate their understanding through a variety of performance tasks. They will be assessed quarterly on progress based on benchmarks outlined above. Forms of evaluation will include homework, class work, projects, quizzes, and tests. Students will keep a portfolio of work to be used as a resource and a learning tool. Numerical course grades will be determined by a point system. The student handbook contains information about missing and late assignment policies in addition to the weighting of trimester grades.

Projected Course Schedule

Units of study spread over 3 trimesters:

Unit 1 - Decimals and Integers

Unit 2 - Fraction Concepts and Operations

Unit 3 - Algebraic Expressions and Equations

Unit 4 - Ratios, Rates, and Proportions

Unit 5 - Percents

Unit 6 - Geometry- Terminology and Measurement

Unit 7 - Patterns, Rules, and Functions