

Mathematics 6 Syllabus
North St. Paul – Maplewood – Oakdale School District 622
John Glenn Middle School

Full Year Course

Standards: MN Academic Standards in Mathematics – Grade 6

Curriculum Essential Outcomes

The student will recognize and find equivalent fractions.

The student will compare and order fractions, decimals, and mixed numbers with $>$, $<$, and $=$.

The student will simplify a fraction to lowest terms.

The student will add and subtract fractions.

The student will add and subtract mixed numbers (e.g. $3\frac{1}{2}$).

The student will make conversions between improper fractions and mixed numbers (e.g. $\frac{3}{2}$ to $1\frac{1}{2}$).

The student will compare and order decimals.

The student will add and subtract decimals.

The student will convert, compare, and order fractions, decimals, and percents.

The student will establish benchmarks for customary units of length and capacity.

The student will make conversions for customary units of length and capacity.

The student will graph ordered pairs in the first quadrant.

The student will compare and order integers.

The student will find the area and perimeter of a triangle.

The student will classify triangles as equilateral, isosceles, or scalene and right, acute, or obtuse.

The student will predict the position of simple geometric shapes under transformations such as reflections, rotation, and translations.

The student will create and interpret data displayed in bar graphs and line plots.

The student will determine the prime factorization of positive integers.

The student will determine the least common multiple and the greatest common factor of whole numbers.

Course Outline:

Students will study topics included in Modules 1 to 7 of the *Math Thematics* Course 1 textbook with a few exceptions. Each module of the text is based upon a theme and includes topics from several mathematical concepts. Topics covered by students throughout the year include computation with fractions, decimals, and percents, area and perimeter of 2-dimensional figures, transformations, mathematical ways to display information and how to interpret that information, graphing ordered pairs on a coordinate grid, work with metric and customary units, and integers.

Course Requirements:

Small cooperative group explorations will introduce the topic. Individual practice will begin in class and completed at home.

“Everyday Counts” – Daily calendar math will introduce and reinforce essential math skills.

Math Facts- Mastery of the math facts through twelve is essential for success in many of the mathematic outcomes. Addition, subtraction, and multiplication math facts through twelve will be tested until mastery is demonstrated.

Grading Procedures:

Daily work completed with effort and on time is eligible to earn the maximum number of points. Work turned in late will receive reduced credit. Missing work lists will be issued every 2-3 weeks. Tests will be given at the midpoint and end of each module.

Text:

Math Thematics Course 1 published by McDougall Littell Publishing Company

Contact Information:

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