

Mathematics 7 Syllabus
North St. Paul – Maplewood – Oakdale School District 622
John Glenn Middle School

Full Year Course

Standards Met: MN Academic Standards in Mathematics – Grade 7

Curriculum Essential Outcomes:

- The student will use order of operations to compute problems using addition, subtraction, multiplication, and division.
- The student will find and use an experimental probability.
- The student will find the theoretical probability of an event.
- The student will use coordinates to identify and plot points in a coordinate plane.
- The student will find the circumference of a circle.
- The student will find the area of a circle.
- The student will calculate the volume of rectangular prisms.
- The student will calculate the surface area of rectangular prisms.
- The student will identify and classify types of quadrilaterals.
- The student will solve problems using proportions and ratios.
- The student will organize data to create a frequency table.
- The student will interpret data organized in a frequency table.
- The student will multiply fractions.
- The student will multiply mixed numbers.
- The student will add and subtract integers.
- The student will multiply and divide integers.
- The student will solve one step equations.
- The student will make conversions within the metric system.
- The student will measure length, mass, and capacity using the metric system.

Course Outline:

Our plan for the school year is to complete the thematic explorations in the first seven modules on our text. Topics we will cover include, but are not limited to: data displays, patterns and sequences, mathematical representations, evaluating expressions, classifying angles, integers, functions, factors, metric length, exponents, translations, one and two-step equations, proportions, percents, inequalities, square roots, similarity, and classifying geometric shapes.

Course Requirements:

Each student will receive a math book to use for the duration of the school year. They are responsible for the care and returning of this book. Fines will be assessed for damaged or lost books. We also strongly encourage students to own a calculator (TI-34II is preferred). Calculators are available for sale at the Open House, as well as throughout the year.

Grading Procedures:

Grades are determined by a combination of homework, quiz, test, and project scores. Homework, which makes up the largest part of a student's grade, will be assigned each night (excluding the night following a test). Tests are typically given at the middle and end of each module. Students who wish to improve their test grade will be given an opportunity to rework test questions they got wrong for extra credit.

All grades will be determined using the following scale:

A	100-93%	A-	92.9-90%	B+	89.9-87%	B	86.9-83%
B-	82.9-80%	C+	79.9-77%	C	76.9-73%	C-	72.9-70%
D+	69.9%-67%	D	66.9-63%	D-	62.9-60%	F	59.9-0%

Text: Middle Grades Math Thematics: Book 2, McDougal Littell, © 1999

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