

Rosa Parks Middle School
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Rosa Parks Middle School's Math Course Offerings

Middle School Mathematics Math 6 (Math A)

Middle School Mathematics Course Math 6 extends students' understanding of numbers and computation to include fractions, decimals, and percents. All concepts and skills are presented in the context of problem solving that requires the use of reasoning and communication. Areas of focus include data representation and analysis using frequency table and circle graphs, customary and metric measurement, geometric relationships and transformations, algebraic patterns and relationships, and probability.

Middle School Mathematics Math 6 Support

Middle school mathematics Math 6 support course is a whole year of Math 6 with an additional semester of teaching 5th and 6th grade basic math skills and indicators. This offering is a course for students who have scored basic on the MSA in 4th and/or 5th grade and performing at the basic level in math. These are students who need additional time, support, and practice to grasp math concepts. Some of the concepts will be on strengthening number relationship, algebra, and basic four operation skills needed in math. This course will help students be successful in Math 6 and prepare for the upcoming 6 grade MSA math testing.

Enrollment in this course will allow your child to take 1 semester of Arts Rotation rather than a full year. This is a first semester course only.

Middle School Mathematics Math 6+ Accelerated

Middle school mathematics Math 6+ is a whole year of Math 6 with an additional semester of selected indicators from Math 7 (Math B). This offering is an accelerated course for students who have scored high average or above average on grade 5 indicators and the accelerated sections of the unit assessments. These are students who are able to grasp concepts at a faster pace. Some of the concepts extend students' understanding of numbers dealing with integers, functional relationships, solving equations and inequalities.

Enrollment in this course will allow your child to take 1 semester of Arts Rotation rather than a full year. This is a second semester course only.

Middle School Mathematics Math 7 (Math B)

Middle School Mathematics Course Math 7 (Math B) extends students' understanding of numbers and computation to include integers and proportional reasoning. All concepts and skills are presented in the context of problem solving that requires the use of reasoning and communication. Areas of focus include functional relationships, arithmetic and geometric sequences, geometric precision, and data analysis and representation using box and whisker plots, histograms, and scatter plots.

Middle School Mathematics Math 7+ (Math B/C)

Middle school mathematics Math 7+ is a whole year of Math 7 with an additional semester of selected indicators from Algebra-Prep (Math C). This offering is an algebra preparation course to help student who are going into double period algebra. Students will get addition practice on important pre-algebra skill needed to be successful in Algebra.

Enrollment in this course will allow your child to take 1 semester of Arts Rotation rather than a full year.

Investigations into Mathematics

Investigations into Mathematics is an enriched course for mathematically accelerated students who have successfully completed the Kindergarten to Grade 5 mathematics curriculum as well as the indicators of Middle School Mathematics Course A (Math 6) and the majority of the indicators of Middle School Mathematics Course 7 (Math B) by the end of either Grade 5 or Grade 6. Students successful in this course will take Algebra 1 the following year.

This course is designed for students to receive vital skills needed to be successful in Algebra the following year. Many of the concepts taught in the first semester of Algebra will be previewed in IM as well as the following units of study. The units of study include Patterns and Set Theory, Relations and Finite Operational Systems, Algebra Foundations, Real Number System, Data Analysis, Language of Algebra, Functions and Graphs, and Investigations of Three-Dimensional Geometry.

Middle School Mathematics Course Algebra Prep

Middle School Mathematics Course Algebra Prep extends students' understanding of number to include rational and irrational numbers in the real number system. One goal is to have all students develop computational fluency of real numbers. All concepts and skills are presented in the context of problem solving that requires the use of reasoning and communication. Areas of focus include multiple representations of linear function, data analysis and representation, probability experiments and simulations, and geometric properties and relationships between two- and three-dimensional figures. Middle School Mathematics Course Algebra Prep also previews concepts that are assessed on the Algebra/Data Analysis High School Assessment.

This course is for students who have completed Middle School Mathematics Course Math 7. Those who are successful will take Algebra 1 the following year.

Algebra I

Algebra 1 examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and properties of functions. Mathematical modeling of real-life problems and problem solving are major themes of the course.

Students in this course take the state High School Assessment Test 1 for Mathematics, which includes both algebraic and statistical concepts. This course satisfies the high school Algebra I requirement.

Honors Geometry

Geometry is studied as a mathematical system through the deductive development of relationships in the plane and space. Students formalize their understanding of geometric concepts, including congruence and similarity, circle chords, secants and tangent segments, parallel and perpendicular lines, angle and side measures in polygons, proofs, logic, transformations, the Pythagorean Theorem, constructions, coordinate geometry, and surface area and volume of solids. Students who are successful in this course satisfy the high school geometry requirement.

If you have any questions about your child's placement, please email or call Aaron Schwartz, Math Resource Teacher. Aaron_L_Schwartz@mcpsmd.org