

April Break Workshops for grades 1-7

Workshop	Grade	Day	Time	Teacher	Workshop Description
Early Algebra	1-2	Monday, April 15	4:30 - 6 pm	Gene Sigalovsky	We will provide an overview of the multiple formats used to introduce algebra (pictures, symbols, simple equations, graphs, tables) and work on the hardest problems.
Simplifying/Evaluating Algebraic expressions	3-4	Monday, April 15	6:15 - 8:15 pm	Gene Sigalovsky	The workshop will provide the overview and practice on the basic steps to follow to simplify algebraic expressions: combining like terms, removing parentheses, applying distributive law of multiplication.
Efficient calculations	3-4	Tuesday, April 16	4:00-6:00pm	Gene Sigalovsky	Strategies for smart calculations with all 4 operations including regrouping, splitting (addition and subtraction by parts), cancelling, working with parentheses, applying appropriate properties (distributive, commutative) as well as using geometrical models to calculate fast.
Strategies for Solving Word Problems	3-4	Tuesday, April 16	6:15- 8:15 pm	Gene Sigalovsky	This workshop will review strategies for solving different kinds of multistep word problems (measurements, Time/Speed/Distance, logic, age, etc.) Special attention will be devoted to word problems with variables and practicing translation from English to Algebra. Students will review tools that help organize the information, understand and solve problems (tables, graphs, Venn diagram).
Operations with Fractions	4-5	Wednesday, April 17	4-6 pm	Gene Sigalovsky	The workshop offers practice on adding, subtracting, multiplying and dividing fractions, ways to solve equations with fractions, simplify algebraic expressions with fractions as well as approaches to work on word problems with fractions.
Factors and Multiples	4-5	Wednesday, April 17	6:15 - 8:15 pm	Gene Sigalovsky	The workshop will reinforce the understanding of differences between factors and multiples and explore relationships between them. Students will practice application of each concept in a logical sequence moving from factoring a number, to prime numbers and prime factorization and then to multiples, GCF and LCM and divisibility rules.
Creating Equations to Solve Word Problems	5	Monday, April 15	4-6 pm	Alexander Beider	This workshop will first review the basics: what is equation and a variable and how to translate a word problem (English) into equation (math). Then students will get more practice with creating equations that describe relationships in different kinds of word problems (age, digits/numbers, motion) and use these equations to solve them.
Ratio and Proportion	6	Monday, April 15	6:15-8:15 pm	Alexander Beider	Students will practice using proportions to solve word problems as well as explore relationships between two variables in direct and inverse variation problems.
Parallel and Perpendicular Lines and Congruent Triangles	6	Tuesday, April 16	4-6 pm	Alexander Beider	Property of parallel and perpendicular lines. Distance. Sum of angles in a triangle, Exterior angle theorem. Definitions and Rules for congruence of triangles.
Percentage and Motion/Work Problems	6-7	Tuesday, April 16	6:15-8:15 pm	Alexander Beider	The workshop will review proportions that connect whole, part, and percentage, work on understanding and solving of concentration and interest problems as an examples of using percent's in everyday life and science as well as practice Increasing and decreasing by a percentage. Students will also solving motion problems and work problems using equations.
Exponents and Polynomials	7	Wednesday, April 17	4-6 pm	Alexander Beider	Students will review rules of exponents and practice solving exponential equations as well as work on factoring of polynomials and review zero-product property.
Right Triangles and Circles	7	Wednesday, April 17	6:15-8:15 pm	Alexander Beider	Workshop will review the rules for triangle congruency, Pythagorean theorem, special right triangles, properties of circles, angles and tangents.

Registration fee is \$10 per workshop per child

Please find the registration link at www.metrowestschool.com