February Break Workshops for grades 1-7

Workshop	Grade	Day	Time	Teacher	Workshop Description
Early Algebra	1-2	Tuesday, February 19	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 thehardest problems.
Early Geometry	2-3	Thursday, February 21	4-6 pm	Gene Sigalovsky	Students will review shapes and their attributes and properties, work on the Area and Periemeter of rectangles and complex shapes as well as solve real word problems requiring basic knowledge of geometry.
Simplifying /Evaluating Algebraic expressions	3-4	Tuesday, February 19	6:15 - 8:15 pm	Gene Sigalovsky	The workshop will provide the overview and practice on the basic steps to follow to simplify the algebraic expressions: combining like terms, removing parentheses, applying distributive law of multiplication.
Efficient calculations	3-4	Wednesday, February 20	6:15- 8:15 pm	Gene Sigalovsky	Strategies for smart calculations with all 4 operations includign regrouping, splitting (addition and subtraction by parts), cancellning, working with parentheses, applying appropriete properties (distributive, commutative) as well as using geimetrical models to calculate fast.
Strategies for Solving Word Problems	3-4	Thursday, February 21	6:15- 8:15 pm	Gene Sigalovsky	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 translaslation from English to Algebra.Students will review tools that help organize the information, understand and solve problems (tables, graphs, Venn diagram).
Beyond Multiplication tables	3-4	Thursday, February 21	4-6 pm	Oxana Longinova	Workshop will focus on helping kids learn multiplication facts in meaningful way paving the road for successful study of the further topics, such as number theory and fractions. Students will play with multiplication table trying to understand the nature and properties of multiplication, and then use them to multiply in clever ways feeling efficient and resourceful.
Operations with Fractions	4-5	Wednesday, February 20	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.
Creating equations to Solve Word Problems	5	Thursday, February 21	6:15- 8:15 pm	Oxana Longinova	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/number, motion) and use these equation to solve them.
Ratio and Proportion	6	Tuesday, February 19	4-6 pm	Ira Tarasevich	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	Wednesday, February 20	6:15- 8:15 pm	Ira Tarasevich	Property of parallel and perpendicular lines. Distance; Sum of angles in a triangle, Exterior angle's theorem. Definitions and Rules for congruence of triangles.
Percentage and Motion/Work problems	6-7	Tuesday, February 19	6:15 - 8:15 pm	Ira Tarasevich	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 percents 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, February 20	4-6 pm	Ira Tarasevich	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	Thursday, February 21	4-6 pm	Ira Tarasevich	Workshop will review the rules for triangle congruency, Pythagorean theorem, special right triangles, properties of circles, angles and tangents.
Coordinate planes	7	Thursday, February 21	6:15- 8:15 pm	Ira Tarasevich	Studetns will practice finding the equation of a line, work with intercepts and slopes.

Registration fee is $10 per workshop per child
Please find the registration link at www.metrowestschool.com