

Class : Grade 7 Math

Date/Time : 06/21/2022 - 08/04/2022 Every Tuesday and Thursday 9:30-11:00am

Textbook : (No need to buy the textbook. Class notes are provided.)

Algebra Structure and Method - Book 1 McDougal Littell ISBN 0-395-97722-3

Class Format : Lecture. On-line math games. Homework. (Every class)

Math research project and presentation. (Once)

Dare	Time	Progress
06/21	(Tue)	<ul style="list-style-type: none">• Variables• Grouping Symbols• Equations• Translating Words into Symbols• Translating Sentences into Equations• Translating Problems into Equations
06/23	(Thu)	<ul style="list-style-type: none">• Rules for Addition/ subtraction• Adding / Subtracting Real Numbers• The Distributive Property• The Reciprocal of a Real Number• Rules for Multiplication / Division• Multiplying / Dividing Real Numbers
06/28	(Tue)	<ul style="list-style-type: none">• Transforming Equations: Addition and Subtraction• Transforming Equations: Multiplication and Division• Equations with the Variables on Both Sides• Using Equations to Solve Problems
06/30	(Thu)	<ul style="list-style-type: none">• Exponents• Powers Monomials• Adding and Subtracting Polynomials• Multiplying Monomials• Multiplying Polynomials by Monomials• Multiplying Polynomials
07/05	(Tue)	<ul style="list-style-type: none">• Factoring Integers• Dividing Monomials• Monomial Factors of Polynomials• Multiplying Binomials Mentally• Differences of Two Squares• Squares of Binomials
07/07	(Thu)	<ul style="list-style-type: none">• Factoring Pattern for $x^2 + bx + c$, c positive• Factoring Pattern for $x^2 + bx + c$, c negative• Factoring Pattern for $ax^2 + bx + c$
07/12	(Tue)	<ul style="list-style-type: none">• Factoring by Grouping• Using Several Methods of Factoring• Solving Equations by Factoring• Using Factoring to Solve Problems
07/14	(Thu)	<ul style="list-style-type: none">• Simplifying Fractions• Multiplying Fractions• Dividing Fractions• Least Common Denominators

		<ul style="list-style-type: none"> • Adding and Subtracting Fractions • Mixed Expressions
07/19	(Tue)	<ul style="list-style-type: none"> • Exponents • Negative Exponents • Equations in Two Variables • Points, Lines, and Their Graphs
07/21	(Thu)	<ul style="list-style-type: none"> • Slope of a Line • The Slope-Intercept Form of a Linear Equation • Determining an Equation of a Line
07/26	(Tue)	<ul style="list-style-type: none"> • Functions Defined by Tables and Graphs • Functions Defined by Equations • Linear and Quadratic Functions
07/28	(Thu)	<ul style="list-style-type: none"> • The Graphing Method • The Substitution Method • The Addition-or-Subtraction Method
08/02	(Tue)	<ul style="list-style-type: none"> • Multiplication with the Addition-or-Subtraction Method • Inequality
08/04	(Thu)	<ul style="list-style-type: none"> • Quadratic Function