7th Grade Pre-Algebra Course Outline & Timeline

September: Chapter 1: Integers
In this chapter students will learn what integers are and how to add, subtract multiply and divide integers.

Chapter 2: Rational Numbers
In this chapter, students will learn about rational numbers and how to add, subtract multiply and divide rational numbers.

October: Chapter 3: Expressions & Equations
In this chapter students will learn how to simplify expressions and how to solve one-step and two-step equations using the addition, subtraction, multiplication & division properties of equality.

Chapter 4: Inequalities
In this chapter students will learn how to write and graph inequalities and how to solve one-step and two-step inequalities using the addition, subtraction, multiplication & division properties of inequality.

November: Chapter 5: Ratio & Proportions (Lessons 1-4)
In this chapter students will learn what ratios, rates, and proportions are and how to write and solve proportions.

Chapter 6: Percent
In this chapter students will learn how to compare and order fractions, decimals and percent. They will also learn how to find percent of increase and decrease, discounts and mark-ups, as well as simple interest.

December: Chapter 7: Scale Drawings
In this chapter students will learn use scale and create scale drawings.

Chapter 8: Circles & Area
In this chapter students will learn how to find perimeter, circumference, area of circles, and area of composite figures.

January: Chapter 9: Surface Area & Volume
In this chapter students will learn to use formulas to find surface area and volume of prisms, pyramids, and cylinders.

Chapter 10: Probability & Statistics
In this chapter students will learn about outcomes and events, experimental and theoretical probability, independent and dependent events and comparing populations.

February: Chapter 11: Transformations
In this chapter students will learn what congruent and similar figures are and how to translate, reflect, and rotate shapes on a coordinate plane.

Chapter 5.5-6 & 13.1-4:
Graphing & Writing Linear Equations
In this chapter students will learn that slope is a rate. They will also learn how to graph linear equations using tables and slope-intercept form.

March: Chapter 15: Volume & Similar Solids
In this chapter students will learn how to find volume and surface area of cylinders, cones and spheres. They will also learn how to find surface area and volume of similar solids using proportions.

Chapter 16: Exponents & Scientific Notations
In this chapter students will learn how to work with positive and negative exponents, and how to read, write and do operations in scientific notation.

April: MCA Review & Practice
Students will practice for the MCA III Test and review any areas of concern.

May: Chapter 12: Angles & Triangles
In this chapter students will learn how find measurements of angles in triangle and polygons.

Supplies: Notebook, Pencil, Textbook

Test, Quizzes: There will be a test after each chapter and may be
quizzes throughout the chapter.

Notes :   Notes will be taken almost every day in class.

Assignments: Students will have an assignment almost every day. It
is very important to complete the assignments and
turn them in on time.

Class Participation: Class participation is very important as students get older.

Grading: 100 - 90%   A's
                     89 - 80%   B's
                     79 - 70%   C's
                     69 - 60%   D's

In 7th grade homework and tests are approximately equal value 50%.