# 6th Grade Math Course Outline

## First Quarter:

Chapter 1:  Numerical Expressions and Factors
In this chapter students will work with Whole # Order of Operations.  They will also write numbers using exponents and also work with Prime Factorizations.  Students will be asked to identify factors, multiples, greatest common factors and least common multiples of numbers.

Chapter 2:  Fractions and Decimals
In this chapter, students will learn about operations involving fractions and decimals.  They will review adding and subtracting fractions and move into multiplying and dividing fractions and mixed numbers.  Students will also work with multiplying and dividing decimals.

## Second Quarter:

Chapter 3:  Algebraic Expressions and Properties
In this chapter students will be asked to evaluate and write algebraic expressions.  They will also work with the Properties of Operations

Chapter 4:  Area of Polygons
In this chapter students will learn how find the area of parallelograms, triangles, trapezoids, and compound figures..

Chapter 5:  Ratio and Rates
In this chapter students will learn how to calculate ratios and rates.  They will also learn how to create tables and graphs to compare ratios and rates.  Students will also work with percents and solve real world problems involving percentages.

## Third Quarter:

Chapter 5:  Ratio and Rates (Continued)
In this chapter students will learn how to calculate ratios and rates.  They will also learn how to create tables and graphs to compare ratios and rates.  Students will also work with percents and solve real world problems involving percentages.

How Likely CMP (Supplement):  Probability
In this chapter students will explore probability using real world simulations.  Students will explore theoretical and experimental probability, and also express probability as fractions, decimals, and percents.

Navigations (Supplement): Algebra
In this chapter students will use real world situations to model algebraic expressions.  They will be asked to represent situations as graphs, tables, and algebraic equations.  Students will explore Slope and Y-intercept.

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**Fourth Quarter:**

Chapter 8:  Surface Area and Volume
In this chapter students will learn how to identify surface area and volume of three-dimensional figures.  They will primarily work on prisms and pyramids.

MCA III Review, Test Prep, and MCA III Test

       Chapter 9/10: Statistical Measures and Data Displays
Students will work with measures of center, statistical deviations, and also create graphs and histograms.


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| **Supplies:** | Needed everyday; notebook, pencil, pen<br>Other items; graph paper, graphing calculator |
| **Tests, Quizzes:** | There will be one or two quizzes per chapter, and a test at the end of the chapter. |
| **Notes:** | Notes will be taken almost every day in class. |
| **Assignments:** | Students will have an assignment almost every night.  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.  Students will be encouraged to participate in class as much as possible. |
| **Attendance:** | Attendance is very important.  If a student needs to be gone for any reason, they need to pick up an absence slip when they return and complete all the work in the time allowed. |
| **Grading:** | 100 – 90 %    A<br>89 – 80 %     B<br>79 – 70 %     C<br>69 – 60 %     D |

In 6th grade homework is worth approximately 1/3 of the point totals.  Tests and quizzes are worth approximately 2/3 of the point total.