



6th Grade Mathematics Curriculum

Welcome to ACE's Tutoring LLC's 6th Grade Mathematics sessions. These sessions are conducted in hourly increments and will provide both enlightenment and enrichment for 6th Grade Mathematics. At the end of these sessions, the student may be assigned a worksheet that will further their understanding of any of the offered topics. At this tutoring firm, the goal is to ensure that the enrolled student receives a letter grade of a B or higher and have a deeper understanding of the following topics:

- **RATIO AND PROPORTIONAL RELATIONSHIPS**
 - Understanding ration concepts and use ratio reasoning to solve problems.
 - Introducing ratios
 - Utilizing ratios in word problems and real word situations
- **THE NUMBER SYSTEM**
 - Apply and extend previous understandings of multiplication and division to divide fractions by fractions
 - Review multiplying and dividing fractions.
 - Multiplying and dividing with mixed numbers and improper fractions
 - **Heart Stamp Assessment** ♥
 - Compute fluently with multi-digit numbers and find common factors and multiples
 - Reviewing Least Common Multiples and Greatest Common Factors
 - Utilizing factor trees to find the factorizations of large numbers
 - Finding the Least Common Multiple and Greatest Common Factors among large numbers.
 - Apply and extend previous understandings of numbers to the system of rational numbers
 - Review of the number line and how to utilize it.
 - Introduction of negative numbers and integers
 - Adding/Subtracting Integers
 - Multiplying/Dividing Integers
 - **Diamond Stamp Assessment** ♦
- **EXPRESSIONS AND EQUATIONS**
 - Apply and extend previous understandings of arithmetic to algebraic expressions

- Review of writing expressions using the terms: Sum , Difference , Product and Quotient
- “What is ‘X’ ?”; An Introduction To Variables
- Independent Variables (x) vs Dependent Variables (y)
- Expressions within inequalities
- **GEOMETRY**
 - Solving real world problems revolving around the following:
 - Area
 - Surface Area
 - Volume
 - Club Stamp Assessment ♣
- **STATISTICS AND PROBABILITY**
 - Develop understanding of statistical problem solving
 - Formulating questions and recognizing what is and what is not a statistical question
 - Interpreting data to answer a statistical question
 - Summarize and describe distributions
 - Work with number lines , dot plots , histograms and box plots.
 - Summarizing numerical data sets.
 - Spade Stamp Assessment ♠

For in class settings, worksheets, activities and projects will be incorporated within these topics for the enrolled student(s) to achieve a better understanding. A prize system will also be established for any student who excels in these topics. If you have any questions, please feel free to contact our company email acestutoringllc@gmail.com.

Thank you and we hope to see you at our sessions!