McMinn County Schools
SEVENTH GRADE MATH SYLLABUS

Course Description

By the end of seventh grade, students will understand ratios and proportionality, the number system, expressions and equations, geometry, and statistics and probability. The standards, objectives, and pacing are linked below.

TN State Standards: http://www.tennessee.gov/assets/entities/education/attachments/std_math_gr_7.pdf

Parental Education Participation Act: Tennessee Code Annotated

Course Overview

Seventh grade students will analyze proportional relationships and use them to solve real-world problems. Students will also apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. They will use properties of operations to generate equivalent expressions. Students are expected to solve real-life and mathematical problems using numerical and algebraic expressions and equations. Students will draw, construct, and describe geometrical figures and describe the relationships between them. Students will solve real-life and mathematical problems involving angle measure, area, surface area, and volume. Students will also use random sampling to draw inferences about a population. Students will draw informal comparative inferences about two populations. Students will investigate chance processes and develop, use, and evaluate probability models.

Required Text

Go Math - Middle School - Grade 7. (2014). Houghton Mifflin Harcourt.
ISBN: 978-0-544-06631-1

Resources

We will use multiple primary source documents throughout the school year, and these will be provided to students as we cover them. Please refer to the pacing guide for primary sources that might be analyzed. Students may also access the textbook and resources via their account on my.hrw.com.

Course Schedule

1st Nine Weeks: Adding and Subtracting Integers, Multiplying and Dividing Integers, Rational Numbers, and Rates and Proportionality

2nd Nine Weeks: Proportions and Percent, Expressions and Equations, Inequalities, and Modeling Geometric Figures

3rd Nine Weeks: Circumference, Area, and Volume, Random Samples and Populations, Analyzing and Comparing Data, and Experimental Probability

4th Nine Weeks: Theoretical Probability and Simulations and Prepare for Summative Testing

Additional Information

Field trips, guest speakers, and major projects will be determined throughout the school year.