Norwood Public Schools
Grade 7 Math Curriculum Overview

Description

Grade 7 mathematics at the Coakley Middle School is designed to solidify mathematical knowledge and basic skills and extend these skills towards Algebra. Grade 7 math is leveled into two groupings. Seventh grade math students either take accelerated or college-prep Pre-Algebra with student placement determined by demonstrated ability, teacher recommendation, parental and student input, and other factors. Key concepts include the number system, rational numbers, solving simple equations, data skills, elementary statistics, geometry topics, and ratios and proportional reasoning. Preparation for grade 8 math (either Intro to Algebra or Algebra 1) is a major focus. The grade 7 curriculum has been aligned to the common core content standards.

Learning Experiences:

Students will experience learning through many formats in addition to routine classroom experiences. Technology includes the use of PowerPoint presentations, internet web sites, the Continental Math League Competition and making math relevant to experiences students encounter beyond the math classroom. Additionally, many 7th grade math students take a CorePlus math class. These classes complement the primary thrust of the 7th grade curriculum and often involve projects and various other activities. Advanced 7th grade students take a technology and research class in lieu of the grade 7 CorePlus math class. The standards for mathematical practice are utilized to guide instruction.

Content Outline:

Term 1	Chapter 1	Decimal Patterns and Algebra
	Chapter 2	Statistics: Analyzing Data
Term 2	Chapter 3	Algebra: Integers
	Chapter 4	Algebra: Linear Equations and Functions
	Chapter 5	Fractions, Decimals, and Percents
Term 3	Chapter 6	Applying Fractions
	Chapter 7	Ratios and Proportions
	Chapter 8	Applying Percents
Term 4	Chapter 9	Probability
	Chapter 10	Geometry
	Chapter 11	Geometry: Measuring Two-Dimensional Figures
	Chapter 12	Geometry: Measuring Three-Dimensional Figures

Note: Due to MCAS testing in mid-May and the allowances of the new block schedule, the Geometry units are intertwined throughout the year,

Resources Used:

Resources include the textbook, CD for the textbook, the EdHelper math website, and other internet resources. Textbook used: Glencoe Mathematics Course 2, 2006, ISBN: 0-07-865263-4