

Course Title: Grade 6 Math

Board Approval Date: June, 2010

Course Description:

This course focuses on mastery of the PA Academic Standards for Mathematics. As students progress through this course, they will participate in a variety of learning experiences designed to develop strong math skills and math literacy for all students. To meet these expectations, our curriculum is student-centered and will allow for exploration, discovery, conjecture, and application of mathematics. In addition, the curriculum is organized around mathematical “big ideas,” or clusters of related, important mathematical concepts, processes, and problem solving strategies. Through numerous and interrelated experiences, students will connect and apply math concepts as well as attain strategies to communicate, hypothesize, and support conclusions. Ultimately, the goal is for students to realize that math is more than a body of knowledge and skills. It is a way of interpreting, predicting, understanding, and succeeding in a complex world.

Learning Activities / Methods of Assessment:

Bellringer	Summarization/Closure
Technology as a learning tool (student computers)	Tests and Quizzes
Check for understanding	
Discussion of Lesson Essential Question(s)	
Large group instruction	
Small group work	
Cooperative learning	
Interactive Polyvision board	
Written responses to open-ended questions	

Instructional Resources:

Houghton Mifflin Math, Grade 6 (Houghton Mifflin, 2007)
Algebra Readiness (McDougal Littell, 2008)
PSSA Finish Line (Continental Press, 2008)
Pizzazz! Series (Creative Publications, 1996)
Masterminds: Pre-Algebra (Incentive Publications, 1996)
Search N Shade series (Jacobs Publishing Company, 1998)
The Math Detective (Walsh, 1983)
Accelerated Math program (renewed annually)
Math Facts in a Flash program (renewed annually)
Appropriate Internet resources

Course Pacing Guide

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Course Unit (Topic)	Length of Instruction
1. Place Value and Operations with Whole Numbers	20 Days
2. Number Theory	20 Days
3. Fraction and Decimal Concepts	25 Days
4. Geometry	20 Days
5. PSSA Preparation Unit	20 Days
6. Integers (Previewing Unit-Ulrich)	15 Days
7. Decimals and Percents	25 Days
8. Rational Numbers and Square Roots	20 Days
9. Equations and Inequalities (Previewing Unit-Czap)	15 Days