Course Title: Grade 7 Math   **Board Approval Date: June, 2010**

Course Description:

Concepts taught in 7th Grade Math include the Pennsylvania 7th grade math standards and anchors and an introduction to Algebra. Mastery of these concepts is necessary for a passing score on the PSSA and for success in Algebra I.

Topics in 7th Grade Math include the following:
- Factors and Multiples
- Fraction Sums and Differences
- Ratios and Proportions
- Scale, Scale Factor, and Unit Conversions
- Fractions, Decimals, and Percents
- Probability
- Perimeter, Circumference, and Area
- Triangles, Lines, Similarity, and Congruency
- Integers
- Statistics
- Integer Number Sense and Properties
- Expressions, Equations, and Inequalities
- Graphing Linear Equations

Learning Activities / Modes of Assessment:

Direct instruction	Explorative learning
Peer instruction	Guided practice
Collaborative practice	Independent practice
Checklists / teacher observation	Projects with rubrics
Free-response assessments	Multiple-choice assessments
Performance assessments	Concept mastery assessments
Quarterly assessments	PSSA readiness assessments

Instructional Resources:

Accelerated Math (Renaissance Place web-based software, 2010 Renaissance Learning, Inc.)
Math Course 2 (McDougal Littell, 2008)
Algebra Readiness (McDougal Littell, 2008)
Buckle Down PSSA 7 Mathematics (Buckle Down Publishing, 2008)
Measuring Up to the Pennsylvania Academic Standards Level G (Peoples Education, 2007)
Middle School Math with Pizzazz! (Creative Publications, ????)
Algebra with Pizzazz! (Creative Publications, 1996)
Appropriate Internet resources

Course Pacing Guide

Course: Grade 7 Math

Course Unit (Topic)	Length of Instruction
School-wide and Classroom Procedures and Expectations	2 Days
1. Factors and Multiples	10 Days
2. Fraction Sums and Differences	10 Days
3. Ratios and Proportions	18 Days
4. Scale, Scale Factor, and Unit Conversions	12 Days
5. Fractions, Decimals, and Percents	6 Days
6. Probability	15 Days
7. Perimeter, Circumference, and Area	18 Days
8. Triangles, Lines, Similarity, and Congruency	12 Days
9. Integers	10 Days
10. Statistics	12 Days

PSSA Review	10 Days
PSSA Testing Days – review	5 Days
11. Integer Number Sense and Properties	10 Days
12. Preview: Expressions, Equations, and Inequalities	20 Days
13. Preview: Graphing Linear Equations	10 Days