

Syllabus

Course Title: Grade 6 Math

Grade: 6

DESCRIPTION OF COURSE: The 6th grade math curriculum is aligned to the PA CORE standards and is a comprehensive overview of ratios, proportional relationships, number systems, expressions, equations, geometry, and statistics/probability. Other concepts include variables, properties, operations with decimals, fraction concepts, integers, understanding percent, measurement, perimeter, area, volume, and the graphing of data. The course culminates with an introduction to pre-algebra unit.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	PA CORE STANDARDS/ ELIGIBLE CONTENT
Topic 1 - Numeration	3 days	CC.2.1.6
Topic 2 – Variables, Expressions, and Properties	11 days	CC.2.1.6
Topic 3 – Operations with Decimals	13 days	CC.2.1.6
Topic 4 – Solving Equations	7 days	CC.2.1.6
Topic 5 – Number and Fraction Concepts	5 days	CC.2.1.6
Topic 6- Decimals, Fractions and Mixed Numbers	4 days	CC.2.1.6
Topic 7 – Adding and Subtracting Fractions and Mixed Numbers	3 days	CC.2.1.6
Topic 8 – Multiplying Fractions and Mixed Numbers	3 days	CC.2.1.6.E.1
Topic 9 – Dividing Fractions and Mixed Numbers	6 days	CC.2.1.6
Topic 10 – Integers	11 days	CC.2.1.6
Topic 11 – Properties of Two Dimensional Figures	3 days	CC.2.3.6
Topic 12 – Ratios, Rates, and Proportions	6 days	CC.2.1.6.D.1
Topic 13 – Solving proportions	9 days	CC.2.1.6
Topic 14 – Understanding Percent	8 days	CC.2.1.6
Topic 15 – Equations and Graphs	9 days	CC.2.1.6
Topic 16 – Measurement	7 days	CC.2.4.6
Topic 17 – Perimeter and Area	8 days	CC.2.3.6
Topic 18 – Volume and Surface Area	7 days	CC.2.3.6

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	PA CORE STANDARDS/ ELIGIBLE CONTENT
Topic 19 – Data and Graphs	19 days	CC.2.4.6
Topic 20 –Probability	6 days	CC.2.4.6
Topic 21 – Principles of Algebra	9 days	CC.2.2.6.
Topic 22 – Rational Numbers	8 days	CC.2.1.6.D

RESOURCES:

- 1) **Envision Math**
 Pearson Education Inc., 2009
 Scott Foresman- Addison Wesley

- 2) **Holt Mathematics Course 3**
 Holt, Reinhart, and Winston, 2007

Rev: 10/2/14