

## MATH STANDARDS FOR THE SECOND QUARTER

To develop the lessons the following resources will be used:

### MATHEMATICS:

Textbook: Mathematics – Applications and Concepts –  
Course 2

Unit 3: Similarity, Congruence and Transformation

- Chapter 7: 7-4, pp.302-309
- Chapter 10 – Geometry and Measurement: 10-6, 10-7, 10-8, 10-9, 10-9b, pp. 440-461

Unit 4: Integers

- Chapter 3 – Algebra – Integers: 3-1, 3-2, 3.4a, 3-4, 3.5a, 3-5, 3-6, 3-7, pp. 104-147

Unit 5: Square Roots and Irrational Numbers

- Chapter 11 – Geometry: Measuring Two-Dimensional Figures: 11-1, 11-2, pp.468-477

Web-Site: [www.msmath2.net](http://www.msmath2.net)

Workbooks: Chapter 3, Chapter 7, Chapter 10, Chapter 11

Teacher's Supplementary Materials -Worksheets

Curriculum Guide: Rubicon/Atlas

Unit 3 Standards: Similarity, Congruence and Transformations

M3a: demonstrate an understanding of conditions that indicate two geometrical figures are congruent and what congruence means about the relationships between the sides and angles of two figures

M3b: use proportional reasoning to describe and express relationships between similar and congruent sides

M3c: classify and identify triangles by side and angle measurement and polygons as regular or irregular by the number of sides

M3d: use coordinate geometry to examine special geometric shapes, such as regular polygons and polygons with pairs of parallel or perpendicular sides

M3d: recognize and explain the following attributes of a circle, i.e., radius, diameter, arc, chord, semicircle, and central angle

M3e: determine the length of a side of a figure drawn on a coordinate plane with vertices having the same x or y coordinates

M3f: examine congruence, similarity, and line or rotational symmetry of an object using transformations

#### Unit 4 Standards: Integers

M1e: explain the relationship, meaning and effects of arithmetic operations with the set of integers

M1f: use order of operations and properties to simplify numerical expressions involving integers, fractions, decimals, and exponents

M1g: simplify numerical expressions and solve real-life problems using the set of integers

#### Unit 5 Standards: Square Roots & Irrational Numbers

M1d: describe the difference between rational and irrational numbers

M2e: model and solve equations using inverse operations