



## KENOSHA UNIFIED SCHOOL DISTRICT NO. 1 CURRICULUM AND INSTRUCTIONAL SERVICES

# MIDDLE SCHOOL COURSE SYLLABUS

## MATHEMATICS

### Grade 7

#### Course Description

Students extend their study of mathematical topics such as problem solving, fractions, decimals, percents, geometry, and algebra. They also study integers, rational numbers, measurement, probability, and statistics.

#### Relevance

Grade 7 mathematics allows students to deepen their understanding of math. They extend their understanding of number relationships to integers and proportional reasoning. They apply problem solving strategies to real world situations and develop a deeper understanding of probability, statistics, and geometry.

#### Course Standards

A. Mathematical Processes                      C. Geometry                      E. Statistics and Probability  
B. Number Relationships                      D. Measurement                      F. Algebraic Relationships

Most essential benchmarks may be viewed at: [www.kusd.edu](http://www.kusd.edu).

#### Lifelong Learning Standards

- Knowledgeable person
- Effective communicator
- Quality producer
- Complex thinker
- Self-directed learner
- Contributing citizen

Lifelong learning benchmarks may be viewed at: [www.kusd.edu](http://www.kusd.edu).

#### Course Outline

##### Quarter 1

Chapter 1.1-1.12 Algebraic Reasoning: exponents, order of operations, properties, expressions, and equations

Chapter 2.1-2.8 Integers and Rational Numbers: integer operations and number sense

##### Quarter 2

Chapter 2.9-2.11 Integers and Rational Numbers: fractions and decimals

Chapter 3.1-3.12 Applying Rational Numbers: decimal and fraction operations

Chapter 4.1-4.5 Patterns and Functions: graphs and the coordinate plane

Chapter 5.1-5.5 Proportional Relationships: ratios, rates, and proportions

##### Quarter 3

Chapter 5.7-5.9 Proportional Relationships: similar figures and scale drawing

Chapter 6.1-6.5 Percents: fractions, decimals, and percents

Chapter 7.1-7.10 Collecting, Displaying, and Analyzing Data: mean, median, mode, and graphs

Chapter 8.1-8.8 Geometric Figures: vocabulary, angles, polygons, triangles, quadrilaterals, circles

## **Quarter 4**

Chapter 8.9-8.11 Geometric Figures: transformations and symmetry

Chapter 9.1-9.7 Measurement: Two Dimensional Figures: perimeter, circumference, area, squares, and square roots

Chapter 10.1-10.4 Measurement: Three Dimensional Figures: volume and surface area of cylinders and prisms

Chapter 11.1-11.7 Probability: experimental and theoretical probability, combinations, and permutations.

## **Board-Approved Instructional Materials**

Bennett, Burger, et al., *Middle School Mathematics* Course 2, Holt, 2007 (ISBN 00303851)

Online book and resources: [www.thinkcentral.com](http://www.thinkcentral.com) Choose Mathematics...Holt Mathematics (user name and password required and provided by teacher)

Free Holt Online resources: [www.thinkcentral.com](http://www.thinkcentral.com) – Enter the Keyword: **MS7parent** in the Go resources box at the bottom of the page

## **Parents as Partners**

Family involvement is an essential element for a student's success in mathematics. Be positive and support homework, don't do it for them. Think of yourself as a guide rather than your child's teacher. You can help by asking questions and listening. You may also help by visiting the online resources and encouraging your child to take advantage of the tutorials, interactive activities, and other online resources listed above. For those without home web access, the Holt One Stop CD is available for check out from your child's classroom teacher or the middle school library.

## **Methods of Assessment**

KUSD common assessments; unit assessments; quizzes; projects

## **Board-Approved Grading Scale**

Excerpts taken from School Board Rule 6452

### GRADING SCALE

A+=98-100 percent

B+=86-89 percent

C+=76-79 percent

D+=66-69 percent

A=93-97 percent

B=83-85 percent

C=73-75 percent

D=63-65 percent

A-=90-92 percent

B-=80-82 percent

C-=70-72 percent

D-=60-62 percent

F=0-59 percent

### MAKE-UP WORK

Students submitting work up to ten school days late without prior approval may receive up to two grades lower on the work than they would have received if the work had been submitted on time (i.e., B+ lowered to a D+). Student work submitted after ten school days without prior approval shall not be accepted for credit and shall be recorded with a score of zero.

Upon returning to school after an absence, a student has the responsibility within the number of days equal to the length of the absence or suspension to meet with the teacher to develop a plan for making up missed work, quizzes, and examinations. A truant student has the responsibility on the first day he or she returns to the course/class to meet with the teacher to develop a plan for making up missed work, quizzes, and examinations. Lower grades may not be given for late work due to excused absences, suspension, or truancy unless the work is submitted later than agreed upon deadlines.

**See Rule 6452 in its entirety at: [www.kusd.edu](http://www.kusd.edu)**