

MIDDLE SCHOOL MATHEMATICS

Grade 7 Pre-Algebra

Teachers

Mrs. Beth

Mrs. Bornhuetter

Room Number

222

222

Telephone Numbers

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E-Mail Addresses

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Contact Times

Period 5

Period 9

Extra Help

Mash is offered weekly

Prerequisites

Students should meet at least 2 of the following in addition to teacher recommendation:

- Grade of A or B+ in Grade 6 mathematics using challenge problems and “C” level activities
- Results of WKCE and IAAT
- Evidence of mastery of Most Essential Benchmarks (Grade 6)

K-12 Math Standards

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

Most Essential Benchmarks for Pre-Algebra attached and also available at www.kUSD.edu

Lifelong Learning Standards

Knowledgeable person

Complex thinker

Effective communicator

Self-directed learner

Quality producer

Contributing citizen

Lifelong learning benchmarks may be viewed at: www.kUSD.edu

Course Description

Pre-Algebra builds upon the essential skills of arithmetic as they apply to algebra. Real numbers and linear equations, linear inequalities, factoring, fractions, graphing and some elements of geometry are stressed in preparation for a rigorous course in Algebra 1.

Course Outline

Quarter 1:

Chapter 1 – Students will learn to simplify expressions using variables, exponents, integers and the order of operations.

Chapter 2 – Students will solve linear equations using addition, subtraction, multiplication, and division.

Chapter 3: Students will continue the study of equations involving variables on both sides and will also begin working with the solution of basic inequalities.

Quarter 2:

Chapter 4 – Students will study factors, fractions, and exponents. They will learn the rules of exponents, GCF, LCM, and scientific notation.

Chapter 5 – Students will study rational numbers and equations involving rational numbers. They will learn to multiply and divide fractions.

Chapter 6 – Students will work with ratios, proportions, and probability. They will apply proportionality to similar, congruent figures, and scale drawings. They will also learn basic probability.

Chapter 7 – Students will work with fractions, decimals, and percents. They will apply these to problem situations, such as simple and compound interest.

Quarter 3:

Chapter 8 – Students will study linear functions. They will learn the vocabulary associated with relations and functions and will write and graph linear equations.

Chapter 9 – Students will learn to simplify basic square roots and solve problems involving right triangles. They will use the Pythagorean Theorem to solve problems and will work with the distance and midpoint formulas.

Quarter 4:

Chapter 10 – Students will learn to solve problems involving measurement, area, and volume. They will learn the properties of several polygons and will also learn to calculate volume and area using formulas.

Chapter 13 – Students will study angle relationships and transformations. They will study angles pairs and angles formed by parallel lines. They will also learn to work with translations, reflections, and symmetry.

Second Chance: Math in Context Probability Unit – Students will experience a hands-on unit dealing with probability.

Relevance

Pre-Algebra will provide students the foundation in algebra, geometry, and problem solving that is needed for success in Algebra 1. Integrated print and technology resources will help all students build confidence in problem-solving skills.

Board – Approved Instructional Materials

Larson, *Pre-Algebra*, McDougal Littell, 2005
ISBN #0-618-25003-4

Supplementary Materials

KUSD Middle School Supply List

Required Daily: math textbook, pencils, red pen, RED spiral, RED folder, loose-leaf paper, assignment notebook

Methods of Assessment

Daily homework, in-class work, labs, projects, quizzes, tests, notes, warm-ups

Extra Credit

Offered weekly- posted daily in the classroom

Board-Approved Grading Scale

Excerpts taken from School Board Rule 6452:

GRADING SCALE

A+	=	98 – 100%
A	=	93 – 97%
A-	=	90 – 92%
B+	=	86 – 89%
B	=	83 – 85%
B-	=	80 – 82%
C+	=	76 – 79%
C	=	73 – 75%
C-	=	70 – 72%
D+	=	66 – 69%
D	=	63 – 65%
D-	=	60 – 62%
F	=	0 – 59%

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

We have reviewed and understand the syllabus for Pre-Algebra.

Student's signature

Date

Parent's signature

Date