

| LANCE MIDDLE SCHOOL MATHEMATICS | |
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| Grade 7 | |
| <u>Teachers</u> Mrs. Beth Mrs. Bornhuetter | <u>Room Number</u> 222 222 |
| <u>Telephone Numbers</u> Mrs. Beth 262.945.9450 Mrs. Bornhuetter 262.344.3749 | <u>E-Mail Addresses</u> sbeth@kUSD.edu ldallas@kUSD.edu |
| <u>Contact Times</u> Period 5 Period 9 | <u>Extra Help</u> Mash offered weekly |
| <u>Prerequisites</u> Completion of grade 6 mathematics | |
| <u>K-12 Math Standards</u> A. Mathematical Processes B. Number Relationships C. Geometry D. Measurement E. Statistics and Probability F. Algebraic Relationships | Most Essential Benchmarks for Grade 7 attached and also available at www.kUSD.edu |
| <u>Lifelong Learning Standards</u> Knowledgeable person Complex thinker Effective communicator Self-directed learner Quality producer Contributing citizen Lifelong learning benchmarks may be viewed at: www.kUSD.edu | |
| <u>Course Description</u> Students will extend their study of mathematical topics such as problem solving, fractions, decimals, percents, geometry, and algebra. They will also study integers, rational numbers, measurement, probability, and statistics. | |
| <u>Course Outline</u> Pacing subject to change according to student progress. First Quarter Chapter 1.1-1.5: Algebraic Reasoning Students will learn to represent numbers by using exponents. They will also learn to use scientific notation and the order of operations Chapter 2.6-2.11: Integers and Rational Numbers Students will learn to use prime factorization in finding GCF and LCM. They will also learn to identify, write, order, and compare fractions and decimals. Supplemental Unit: Students will use supplemental material to review the basic concepts of fractions and decimals. Chapter 6.1-6.7: Percents Students will learn to use and apply the concept of percent. Second Quarter Chapter 5.1-5.9: Proportional Reasoning | |

Students will learn to identify, write, and compare ratios. They will use ratios write proportions and apply that to similar figures and scale drawings.

Chapter 1.6-1.12: Algebraic Reasoning

Students will learn to simplify algebraic expressions and solve equations.

Chapter 2.1-2.5: Integers and Rational Numbers

Students will learn to add, subtract, multiply, and divide integers.

Chapter 3.1-3.6: Apply Rational Numbers

Students will apply integer and decimal concepts to estimate costs and find measurements.

Third Quarter:

Chapter 3.7-3.12: Applying Rational Numbers

Students will learn to estimate with fractions and mixed numbers. They will use the four operations to solve problems involving fractions and decimals

Chapter 12.1-12.7: Multi-Step Equations and Inequalities

Students learn to solve equations and to read, write, and graph inequalities.

Chapter 4: Patterns and Functions

Students will use the coordinate plane to plot ordered pairs and graph relationships.

Chapter 8: Geometric Figures

Students will learn to classify angles, triangles, and quadrilaterals. They will also graph translations and reflections on a coordinate grid.

Fourth Quarter:

Chapter 9: Measurement: Two-Dimensional Figures

Students will learn to find perimeters, circumference, and areas of figures.

Chapter 10: Measurement: Three-Dimensional Figures

Students will learn to find volume and surface area of prisms, cylinders, and cones.

Chapter 7: Collecting, Displaying, and Analyzing Data

Students will learn to select, analyze, and display data. They will analyze trends and learn to make inferences based on data.

Supplemental Unit: Probability

Students will use a hands-on approach to the study of probability

Relevance

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

Board – Approved Instructional Materials

Bennett, Burger, Chard, Jackson, Kennedy, Renfro, Scheer, Waits, *Middle School Mathematics Course 2*, Holt, 2007
ISBN #003038512

Supplementary Materials

KUSD Middle School Supply List

Required Daily: math textbook, pencils, RED spiral notebook, 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 in 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 Grade 7.

Student's signature

Date

Parent's signature

Date