Bracken County Middle School
5th Grade Mathematics
2008-2009 Course Syllabus

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Course Description
This math course is designed and organized to help students learn and use mathematical skills and concepts. Lessons on a topic are spread out over time, allowing students to solidify the learning of one building block of a concept before moving on to the next block of a concept. Assignments will contain a variety of previously presented concepts, providing distributed practice that boost long-term learning and concept acquisition. Emphasis is placed on number properties and operations, geometry, measurement, algebraic thinking, and data analysis and probability.. Through continual review, previously presented concepts will be practiced frequently and extensively throughout the year.

Comment
The main goal of this class is to strengthen students grasp of concepts, improve their flexibility to work with several mathematical concepts at a time, and improve their long-term retention of concepts. Through incremental development of topics coupled with continual review, students are given the time to develop a deeper understanding of concepts and how to apply them. This incremental approach provides students with time to solidity prerequisite concepts and skills before they are introduced to the next step of instruction.

Course Standards
- Add, subtract, multiply, and divide whole numbers
- Investigate multiple respresentations of whole numbers and equivalent fractions
- Find rules for, extend, and create patterns
- Add and subtract decimals and simple fractions with like denominators
- Use standard units to measure weight, length, perimeter, area, time, temperature, and angles
- Convert units of measurement and determine elapsed time
- Describe and provide examples of basic geometric elements and terms
- Describe basic two- and three-dimensional shapes
- Identify and describe congruent and similar figures
- Describe and apply line symmetry to construct geometric designs
- Identify and graph ordered pairs on a positive coordinate system
- Collect, organize, and describe data to find the mean, median, mode and range
- Construct and interpret displays of data
- Determine the likelihood of an event and the fairness of simple probability
- Describe functions and construct tables to analyze functions
- Find solutions to numbers sentences with missing values

Method of Grade Calculation
Students will be evaluated on including but not limited to the following:

- Assignments
- Tests
- Quizzes
- Projects
- Open Response Questions
- "Problem of the Day"

Textbook
Hake, Stephen, & Saxon, John, Saxon Math 6/5, Saxon Publishers, Norman, OK, 2004.

Required Materials

- Spiral Notebook
- Blue Folder
- Loose Leaf Paper
- Pencils

Classroom Rules and Procedures

- Arrive prepared for class (notebook, textbook, pencil, assignment)
- Write assignment in agenda book
- Do "Problem of the Day"
- Be recognized before speaking out in class or getting out of your seat
- Always sit in assigned seat
- Use proper heading on all assignments

Classroom Participation/Attendance
Attendance is of vital importance, as much of the work is started and/or finished in class. Only students with excused absences will be given grades on make-up work. Assignments not completed on time will be accepted no later than the next day.

Course Content
Lessons

1 -10	Sequences, even/odd numbers, place value, fact families, equations
11-20	Lines, multiplication/division
21-30	Division, factors, time
31-40	Fractions/mixed numbers, angles, polygons, rounding, classifying triangles
41-50	Add/subtract fractions, classify quadrilaterals, expanded notation, average
51-60	Perimeter, circles, simple probability
61-70	Estimation, decimals, metrics
71-80	Area (Part 1), converting units of weight/mass, prime /composite numbers
81-90	Reducing fractions, geometric solids, mean, median, mode, and range, converting units of capacity, transformations
91-100	Graphs
100-110	Symmetry, schedules
110-120	Least Common Multiple(LCM), Area (Part 2)