

Bracken County Middle School
6th Grade Math
2008-2009 Course Syllabus

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Course Description:

The contents of this course are aligned with the Program of Studies and Core Content for Middle School Mathematics set forth by the state of Kentucky. Concepts taught in previous years will be reviewed and new concepts will be introduced. Specific topics to be covered are number theory, integers and real numbers, measurement, use of variables, equations, spatial concepts, the coordinate plane, and data handling.

Comments:

The overall goal for this class is for student to master previously learned concepts and get a more in-depth understanding of them. This class is designed to prepare the student with the needed material that will allow an easy transition into the 7th grade.

A variety of teaching methods will be used to explore the different concepts, such as small group activities, large group activities, teacher lecture, and student presentations.

Course Standards:

Students will

- Identify rational numbers which include fraction, decimals, and percents
- Understand place value of large and small numbers (scientific notation) and exponents
- Add, subtract, multiply, and divide rational numbers
- Solve proportions
- Determine prime numbers, composite numbers, factors, multiples, greatest common factors, least common multiples
- Explore how applications of properties such as commutative, associative, distributive, and identities show relationships among numbers
- Move shapes in a plane: translate (slide), rotate (turn), reflect (flip)
- Collect, organize, analyze, and interpret data in a variety of graphical methods, including circle graphs, line graphs, box-and-whisker plots, and stem-and-leaf plots.
- Determine and apply the most appropriate measures of central tendency (mean, median, and mode.)
- Understand dispersion (range, cluster, gaps, and outliers)
- Understand the concept of equations and inequalities using variables as they relate to everyday situations.
- Construct and interpret displays of data (circle graphs, line plot, stem-and-leaf plot)
- Determine experimental and theoretical probabilities by designing and conducting experiments
- Simplify numerical and algebraic expressions

Method of Grade Calculation:

Students will be evaluated on class assignments and activities including but not limited to:

✓ Celebrations (Tests)☺	45%
✓ Assignments/math Journal	30%
✓ Quizzes	15%
✓ Notebook/Folder	<u>10%</u>
	100%

Textbook:

Mathematics Applications and Concepts Course 1. 2004 Glencoe/McGraw-Hill.

Required Materials:

- ✓ Pocket Folder – to keep homework and workbook in all year
- ✓ Spiral Notebook – for notes
- ✓ Loose-leaf paper – for homework so that you don't have to use the paper in your notebook
- ✓ Blue or Black in pens – for grading only
- ✓ Pencils – These are a must in math!!!

Classroom Expectations:

- BE PROMPT – Being on time is very important!
- BE PREPARED – Have math book, notebook, homework, folder, and definitely a pencil ready everyday!
- BE PRODUCTIVE – Use class time wisely!
- BE POSITIVE – You can do math!
- BE POLITE – Respect yourself, classmates, teachers, and your surroundings!

Classroom Participation/Attendance Policy:

Students will be expected to be here and be on time with all class materials. Attendance is very important considering that much of the work is done in class. Students with excused absences are allowed ONE day for each day they are absent to make up their work.

Tentative Calendar of Course Content:

Unit 1 Whole Numbers, Algebra, and Statistics	7 weeks
Unit 2 Decimals	6 weeks
Unit 3 Fractions	8 weeks
Unit 4 Algebra	6 weeks
Unit 5 Ration and Proportion	7 weeks
State Testing	1 week