

Bracken County Middle School
8th Grade Algebra 1
2008-09 Course Syllabus

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Course Description

During the school year, five strands of mathematics are studied: *number properties and operations, measurement, geometry, data analysis and probability, and algebraic thinking*. The majority of your time will be focused upon algebraic thinking. Throughout the year you may find that you will be working on concepts not found in the Algebra book. This is because at the beginning of May all 8th graders enrolled in a Kentucky public school are tested on 8th grade core content and since the core content involves all five strands it will be necessary from time to time for you to review the other strands listed above. The course includes concept exploration, mathematical tools, manipulatives, hands on activities, and group work.

Comments

Math skills are an important element of everyday life. The most effective way of learning mathematics is through practice. During this class you will be required to take notes and practice problems through assignments. By doing this you will be able to apply what you have learned to the tests.

Course Standards

In this course, you will:

- explore using variables to represent data
- write, evaluate, and simplify variable expressions
- write and solve linear equations
- perform operations with real numbers
- display and analyze statistical data
- find probabilities of simple events
- explore data to determine whether a linear relationship exists
- represent linear relationships as points on a coordinate plane and as an equation representing a line
- analyze how the equation and the graph of a line are related
- extend knowledge of linear graphing to inequalities and systems of linear equations

Method of Grade Calculation

Students will be evaluated on activities including, but not limited to:

Assignments	30%	Notes & Folder	10%
Quizzes	15%	Tests	45%

Textbook

Algebra 1. (2003) Glencoe/McGraw –Hill

Required Materials

- Math notebook
- Math folder
- Pencil
- Assignment (completed)

Classroom Rules & Procedures

- Sit down in your seat
- Get out math materials
- Listen to and follow directions
- Respect others
- One person on the floor at a time
- Put your name on all papers
- Number and place in math folder all returned work
- Raise your hand and be called upon before talking

Classroom Participation/Attendance Policy

Students will be expected to be on time and prepared for class with all necessary materials. Attendance is essential because the material builds from previous lessons. If you have an excused absence you will be allowed to make up the work for credit. For each day you are absent, you will receive a day to complete make-up work.

Tentative Calendar of Course Content

FIRST SEMESTER

Unit 1 Expressions and Equations	
Ch. 1 The Language of Algebra	3 ½ weeks
Ch. 2 Real Numbers	3 weeks
Ch. 3 Solving Linear Equations	3 weeks
Unit 2 Linear Functions	
Ch. 4 Graphing Relations and Functions	3 ½ weeks
Ch. 5 Analyzing Linear Equations	3 ½ weeks
*8 th grade core content not found in Algebra curriculum	1 ½ weeks

SECOND SEMESTER

Ch. 6 Solving Linear Inequalities	3 weeks
Ch. 7 Solving Systems of Linear Equations and Inequalities	3 ½ weeks
Unit 5 Data Analysis	
Ch. 13 Statistics	3 ½ weeks
Ch. 14 Probability	3 ½ weeks
*8 th grade core content not found in Algebra curriculum	1 week
Unit 3 Polynomials and Nonlinear Functions	
Ch. 8 Polynomials	3 ½ weeks

Reminder

You must earn an average of a B or higher to receive high school credit for this class.