

Mathematics

2008—2009

STEGER SCHOOL DISTRICT 194

Columbia Central School

94 West Richton Road

Steger, Illinois 60475

Phone: 708.755.0021

MATHEMATICS

6th Grade Math Computations: Students will use Prentice Hall *Mathematics*. Topics of study include: operations with whole numbers, decimals, and fractions; place value; metric system; percent; and ratios / proportions. Problem solving is incorporated into the learning of all concepts taught.

6th Grade Math Applications: Students will use the curriculum developed by the 6th grade teachers of District 194. This curriculum is a reinforcement and enrichment of the Math Computations curriculum. Students, in addition to the Math Computation curriculum, will learn about geometry. Technology is incorporated into the curriculum. Various projects and hands-on activities encourage students to problem solve and use teamwork to approach math in practical situations.

6th, 7th & 8th Grade Resource: The grade level resource teacher / case manager works with each special education student's IEP to achieve benchmarks and objectives. This is achieved using grade level text and supplemental materials when appropriate. The case manager works individually or in small group settings with the student through inclusion, pull-out, and/or co-teaching. Accommodations and modifications, as stated in the IEP, are provided to support student learning. In addition to working on IEP goals, students are taught study skills, study strategies, and individual responsibility. Annual achievement testing and IEP review will be conducted to determine individual student strengths and needs.

7th Grade Math

Math Computations & Math Application

There are three levels of coursework: Pre-Algebra, average and basic.

The units of study for each include:

- Introduction to Algebra
- Expressions
- Equations

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Curriculum Brochure
Copy available at Schools

- Equation Solving
- Decimals, Fractional Numbers, and Percents
 - How they relate to each other
- Estimating
- Exponents
- Proportions
- Data
- Measurement
- Geometry
- Word Problems
- Labs to enrich the units of study to apply the concepts to the world in which they live

8th Grade Algebra

Math Computations & Math Application *High School Course & Honors Course*

Units of Study:

- Expressions
- Equations
- Fractions
- Proportional Reasoning
- Graphing Relations and Functions
- Linear Inequalities
- Systems of Linear Equations and Inequalities
- Polynomials
- Factoring
- Quadratic Functions
- Radical Expressions and Equations

Students in the High School Algebra course will receive a credit at Bloom Trail High School for math if a C grade, or above, is maintained for all four quarters.

8th Grade Math & Math Application

Math Computations

The units of study include:

- Measurement
- Geometry

- Algebraic Introduction, which includes expressions, equations, inequalities, integers, rational numbers, proportions, percents, number theory, fractional work, analyzing data, problem solving.
- Many hands-on labs are used to help the students understand the application of math concepts to the real world. Calculator use is integrated.

OUR MISSION

The mission of Columbia Central School is to provide 6th, 7th, and 8th grade district students with the academic, social, and technological experiences necessary for them to be successful as high school students and as healthy, responsible, inquisitive, and productive members of their communities.

ILLINOIS STATE MATH GOALS:

6. Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.
7. Estimate, make and use measurements of object, quantities, and relationships and determine acceptable levels of accuracy.
8. Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results.
9. Use geometric methods to analyze, categorize, and draw conclusions about points, lines, planes and space.
10. Collect, organize, and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.

**STEGER
SCHOOL DISTRICT 194
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For additional information on the Illinois Learning Standards and Descriptors visit the Illinois State Board of Education website at
www.isbe.state.il.us/ils/default.htm
or
the Steger School District 194 website at
www.sd194.org