

Bethel School District

Math Curriculum Overview

K – 5

Math Trailblazers

Kendall-Hunt Publishing Co

Math Trailblazers is a comprehensive curriculum that maintains a balance between the development of math concepts and basic skills. Students apply basic math skills while working on meaningful and challenging tasks. The math content of the traditional math curriculum is studied; but other topics -- estimation, geometry, measurement, patterns and relationships, algebra concepts, and statistics and probability -- are investigated at an appropriate level in each grade.

6 – 8

Connected Mathematics

Prentice Hall

The Connected Mathematics Project (CMP) was funded by the National Science Foundation to develop a mathematics curriculum for grades 6, 7, & 8. The result was *Connected Mathematics*, a complete mathematics curriculum that helps students develop understanding of important concepts, skills, procedures, and ways of thinking and reasoning in number, geometry, measurement, algebra, probability, and statistics. The fundamental mathematical and instructional themes emphasize significant connections among mathematical topics and other disciplines, inquiry and discovery of mathematical ideas through investigation, and reasoning with information represented in graphic, numeric, symbolic, and verbal forms.

Ramp-Up America's Choice

Ramp-up math is an instructional system designed to accelerate the mathematics achievement of low-performing middle and high school students so that they can get back on the path to college or prepare for a career. Ramp-Up Mathematics adapts the best practices for teaching and learning mathematics into an acceleration program that works for students 2 to 3 grade levels behind.

9 – 12

Discovering Mathematics Key Curriculum

The *Discovering Algebra*, *Discovering Geometry*, and *Discovering Advanced Algebra* textbook series covers the topics offered in traditional algebra, geometry, and advanced algebra courses. *Discovering Mathematics* works to have all students reach deep understanding of math through investigating interesting and novel problems in cooperative groups using technology appropriately and practicing skills. The *Discovering Mathematics* books support an approach to math that brings about better understanding of concepts and skills. Instead of solving one type of problem after another, students engage in investigations, examples, and exercises that allow them to build up their own bank of skills and concepts.

Applied Math

Cord

Students who have found some difficulties in Algebra and would benefit from a more "hand's-on" approach have been targeted for this course. *Applied Mathematics* teaches algebra and geometry concepts in the context of occupational settings. The course materials engage students in cooperative teams, allowing them to participate in laboratory-centered, hands-on activities that make mathematics concepts practical and relevant. *Applied Mathematics* is a competency-based curriculum that emphasizes problem solving, decision-making, and hands-on learning.

Advanced Courses Offerings in Mathematics

Upon completion of the *Discovering Mathematics* series or the *Applied Math* series, students are encouraged to take the following advanced mathematics course offerings: **Pre-Calculus**, **Advanced Placement Statistics**, and/or **Advanced Placement Calculus**.