

Introduction

The Beaverton School District recognizes the importance of mathematical literacy for all students. Today's students must effectively and efficiently problem-solve, use algorithms, and recall facts in our dynamic, fast-paced, integrated, and global society. Real-world problems of the 21st Century are complicated and require that students:

- Understand mathematical concepts
- Become fluent in computational skills
- Communicate precisely with appropriate, standard mathematical symbols and terms
- Make connections to other disciplines and applications
- Actively engage in their learning

Each of these is a critical component of a rigorous and balanced K-12 mathematics program.

Standards

Oregon state standards comprise a broad range of mathematical topics and promote problem solving, reasoning, communication, making connections, and designing and analyzing representations. The Beaverton School District is committed to a K-12 program that provides every student with the opportunity to become proficient in mathematics and its applications as determined by these standards.

Technology

Technology should be incorporated into the mathematics classroom as tools for teaching and learning. Computerized calculations (e.g., calculators) are not to replace the student's ability to think or to perform basic mathematical operations, but to allow the student to stretch his/her understanding and to focus on higher-level problems once appropriate computational skills have been mastered.

The Beaverton Math Program

The District's mathematics program must be academically challenging and differentiated in order to meet the needs and ensure progress in mathematical fluency for each and every student. Multiple teaching approaches complement each other so that all students learn and understand mathematics at a high level. Teacher-directed and student-centered instruction are both powerful tools in the teaching and learning of mathematics which provide flexible and balanced instruction. Delivery of instruction will vary according to students' needs. Conceptual understanding, procedural fluency, and automatic recall of facts are mutually supportive components of the mathematics program.

The K-12 math program will be consistent within the District and coordinated across grade levels to ensure that all students receive the comprehensive instruction needed to meet or exceed state standards.

Program Evaluation

The Beaverton School District's mathematics program will be assessed annually as to its effectiveness and modified accordingly. The program evaluation should include common assessments aligned across the District and needs to be based on reliable, valid data measured against state and national data, when available. This data will provide ongoing feedback to inform decisions on core curriculum and supplemental materials as well as teacher training.

Parent/Community

The Beaverton School District acknowledges that in order for our students to achieve at a high level, we need the support and cooperation of the parents and the larger, diverse community as a whole. We regard community and families as partners in the educational experience and value a strong home and school connection.

Teachers/Administrators

Beaverton School District math teachers will be well qualified to teach mathematics appropriate to their teaching assignment. The District is committed to supporting teachers in attaining core content knowledge and developing effective teaching practices. The Beaverton School District recognizes and accepts responsibility for providing the significant resources necessary.