

MATHEMATICS STANDARD:

4 Connections

“All students will comprehend and apply mathematical principles, concepts and processes from one area of mathematics to another, as well as in other content areas and in everyday life.”

Rationale:

Mathematics consists of interrelated strands such as computation, geometry, and problem solving. Students must connect the ideas, principles and strategies of each strand to the other strands and to real life. When mathematical ideas are connected to everyday experiences, students can better understand and apply mathematics throughout their lives.

Key Elements: All students will:

- * Connect the use of mathematics to their daily lives.
- * Merge conceptual and procedural knowledge and view mathematics as an integrated whole.
- * Explore problems and describe results using graphical, numerical, physical, algebraic, and verbal mathematical models or representations.
- * Recognize relationships among different strands of mathematics.
- * Apply mathematical thinking and modeling to solve problems that arise in other disciplines and in daily life.
- * Recognize the universal nature of mathematics, and the influence of many cultures in developing our mathematical system.