



St. Mary Catholic Schools

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Algebra I Syllabus

I. PHILOSOPHY

The St. Mary Mathematics Department believes that our students deserve and need the best mathematics education possible; one that enables them to fulfill personal ambitions and career goals in an ever-changing world. Those who understand and can do mathematics will have significantly enhanced opportunities and options for shaping their futures.

The St. Mary's staff needs to provide for the mathematical needs of students by giving attention to:

- The acquisition of necessary basic skills,
- Critical thinking in multidisciplinary areas,
- Problem solving,
- And the use of tomorrow's technology.

The St. Mary's staff recognizes that this should be accomplished incrementally through continued practice.

Continued practice

- Means that fundamental skills and concepts are practiced and reviewed throughout the year.
- Provides the time and experiences necessary for concepts to become a part of the student's long-term learning.

II. COURSE DESCRIPTION

This course will follow the South Dakota State Content Standards adopted in 2004. It is designed to teach the student the basic structure for algebra (the real number system), recognize the techniques of algebra concepts and skills, perceive the role of deductive reasoning in algebra, and to appreciate the need for precision of language. It emphasizes the use of functions, equations, and graphs to model problem situations. Many connections will be made to geometry, statistics, probability, and discrete mathematics. It will prepare students for success in future math courses.

Our Mission

To enable our students to become all that God created them to be by ensuring excellence and equality in education.