

Mathematics
2010-2011

Course description:

The goal of mathematics in the Sixth Grade is to help children maintain a good sense of what numbers mean; mental math and estimation exercises enable the students to become more proficient in computation and problem-solving and students are encouraged to communicate their mathematical thinking both orally and in writing. All the students are enrolled in the Mathletics Program which allows the teacher to monitor each student and to tailor the instruction to their particular needs.

There is a variety of manipulatives, math games and computer software to help students make sense of mathematics as well as make the learning more enjoyable and stimulating.

Objectives:

Students will become mathematically literate
Students will become mathematical problem solvers
Students will learn to reason mathematically
Students will learn to communicate mathematically

Content:

- Whole number concepts and operations
- Fraction concepts and operations.
- Decimal concepts and operations
- Number sense, estimation and mental math
- Mathematical process
- Geometry
- Patterns, algebra, relationships
- Measurement, time, money
- Data, statistics, probability
- Ratio, percent, proportion

Assessment:

Tests, quizzes, performance assessment, rubrics