

JUNIOR HIGH MATHEMATICS DEPARTMENT

7 MATH (STANDARD)

Contact Information

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The Department's Educational Philosophy

The study of mathematics will enhance the ability of all students to problem solve and to reason. Through a strong standardized departmental program that emphasizes problem solving, communicating, reasoning and proof, making connections, and using representations, students will develop organizational skills, self-confidence and a positive attitude toward mathematics. Our curriculum matches that of the [Massachusetts Mathematics Curriculum Framework](#), and we are philosophically aligned with the [National Council of Teachers of Mathematics Standards](#).

Guiding Principles

- All students can learn mathematics.
- Mathematical ideas should be explored in ways that stimulate curiosity, create enjoyment of mathematics, and develop depth of understanding.
- Effective mathematics programs focus on problem solving and require teachers who have a deep knowledge of the discipline.
- Technology is an essential tool in a mathematics education, and all students should gain facility in using it where advantageous.
- All students should have a high-quality mathematics program.
- Assessment of student learning in mathematics should take many forms to inform instruction and learning.
- All students should recognize that the techniques of mathematics are reflections of its theory and structure.
- All students should gain facility in applying mathematical skills and concepts.
- All students should understand the role of inductive and deductive reasoning in mathematics and real life situations.