

**Sixth Grade Math** students at St. Patrick’s will develop into individuals with the ability to solve problems, investigate real-life applications, and begin to understand math around them. They will work to completely master their basic skills at a very high level with speed. They will be introduced to integers and begin to see how they can be incorporated into our everyday lives. Additionally, they will be introduced to many concepts including some algebra, geometry, proportions, and inequalities. This introduction will lay the foundation for the next two years in math. By the end of the 6<sup>th</sup> grade term, St. Patrick’s students will, in the field of math, be individuals that can accurately solve a variety of problems using techniques learned. They will demonstrate an understanding of the difference between negatives and non-negatives. The goal is to have these students aware of math in a holistic nature.

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
<b>6.1 Algebra</b>	Students will master decimals while beginning to understand integers a. +, -, x, and dividing b. problem solving c. negatives	Practice Text Notes Number Lines Activities	Chapter Test Quizzes Homework Worksheets Projects
<b>6.2 Algebra</b>	Students will get an introduction to inequalities with equations a. writing equations (variables) b. one and two-step problems c. graphing inequalities d. +, -, x, and dividing equations, inequalities	Number Lines Text Notes Graph paper	Chapter Test Quizzes Homework Projects
<b>6.3 Numbers and Operations</b>	Students will further their understand all of stages of the order of operations	Charts Text Notes Practice	Chapter Test Quizzes Homework Projects
<b>6.4 Problem Solving</b>	Students will further their understanding of prime factorization and divisibility a. rational numbers b. mixed numbers and improper fractions c. comparing and ordering fractions	Notes Text Worksheets Factor Trees Project	Chapter Test Quizzes Homework Observation Projects

	<b><u>Standards/Goals</u></b>	<b><u>Instructional Tools</u></b>	<b><u>Assessment Tools</u></b>
<b>6.5 Numbers and Operations</b>	Students will master their knowledge of operations and functions a. +, -, x, and dividing b. equations	Timed Tests Text Notes	Chapter Test Quizzes Homework Timed Tests Observation
<b>6.6 Problem Solving</b>	Students will initiate knowledge of ratio, rate, and proportion a. definitions b. introductions	Text Notes Real-Life applications (stories)	Chapter Test Quizzes Homework Worksheets Projects
<b>6.7 Problem Solving</b>	Students will gain an understanding of percents a. application b. understanding	Text Notes All Projects	Chapter Test Quizzes Homework Projects
<b>6.8 Numbers and Operations</b>	Students will continue the understanding of numbers and logic a. sequence b. logic and real-life	Text Notes Discussion	Chapter Test Quizzes Homework Worksheets Observation
<b>6.9 Geometry</b>	Students will begin to understand geometry basics a. lines, planes, angles, bisectors, shapes, circles	Protractors Compasses Text Notes Objects	Chapter Test Quizzes Homework Art Projects
<b>6.10 Data Analysis and Probability, Measurement</b>	Students will be introduced to metric and English conversions a. back and forth	Rulers Text Notes Objects of all sorts Conversion Charts	Chapter Test Quizzes Homework Projects