

**First Grade Math** students at St. Patrick’s will develop into individuals with the ability to solve problems and record data, using mathematical language, in an organized way. Students will become more proficient in their understanding of numbers and performing operations with numbers. In first grade, students will develop their measurement skills by measuring in inches and centimeters and will develop their skills of telling time and counting money. Students will be introduced to several new geometry concepts including fractions and three dimensional shapes. Students will improve their speed and accuracy when completing basic additions and subtraction problems.

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
<b>1.1 Number and Operations</b>	a. Solve addition and subtraction fact problems. b. Develop mental math skills. c. Solve addition and subtraction number stories in an organized way. e. Find and use complements of 10. f. Use number sentences to solve problems and number stories. g. Use fact families. h. Solve 30 addition facts through 18 in five minutes with 90% accuracy. i. Solve 30 subtraction problems through 10 in five minutes with 90% accuracy. j. Identify ordinal numbers 1 <sup>st</sup> – 10 <sup>th</sup> . k. Use number order, relations, to solve problems. l. Use estimation to solve and check problems. m. Develop an understanding of odd and even numbers. n. Introduce and identify fractions. o. Identify place value in the ones, tens, and hundreds place. p. Find missing addends. q. read, identify, write, order, and compare numbers to 100 and introduce numbers to 300. r. Use addition concepts and strategies to find the sums of 2 and 3 addends to 20. s. Subtract from 20 using subtraction concepts and strategies. t. Add 2 digit numbers including money amounts, without regrouping.	Manipulatives Number Grid Number Line Math Games Mimio Addition/Subtraction Flash Cards Computer Games Slates Math Learning Stations Student Math Books Calendar	Tests Daily Work Timed Tests Slate Assessments Homework Teacher Observation

	<b><u>Standards/Goals</u></b>	<b><u>Instructional Tools</u></b>	<b><u>Assessment Tools</u></b>
<b>1.2 Measurement</b>	<ul style="list-style-type: none"> <li>a. Measure line segments to nearest inch and ½ inch.</li> <li>b. Measure line segments to nearest centimeter.</li> <li>c. Tell and show times to nearest hour, half hour, and quarter hour using analog and digital clocks.</li> <li>d. Count combinations of pennies, nickels, dimes, and quarters, and write the totals in dollars and cents notation.</li> <li>e. Use a thermometer to tell temperature to the nearest degree (Fahrenheit).</li> <li>f. Introduce concepts of weight, area, and volume.</li> <li>g. Compare time, order events, and determine elapsed time.</li> <li>h. Use a calendar</li> </ul>	<ul style="list-style-type: none"> <li>Student Math Books</li> <li>Tape measures</li> <li>Rulers</li> <li>Clocks</li> <li>Coins</li> <li>Thermometers</li> <li>Mimio</li> <li>Math Learning Stations</li> <li>Calendar</li> <li>Math Games</li> </ul>	<ul style="list-style-type: none"> <li>Tests</li> <li>Daily Work</li> <li>Homework</li> <li>Teacher Observation</li> </ul>
<b>1.3 Data Analysis and Probability</b>	<ul style="list-style-type: none"> <li>a. Make and use line plots and bar graphs to organize, display, and interpret data.</li> <li>b. Make and count tally marks to represent data.</li> </ul>	<ul style="list-style-type: none"> <li>Student Math Journals</li> <li>Class data</li> <li>Manipulatives</li> </ul>	<ul style="list-style-type: none"> <li>Tests</li> <li>Daily Work</li> <li>Homework</li> <li>Teacher Observations</li> </ul>
<b>1.4 Geometry</b>	<ul style="list-style-type: none"> <li>a. Name and identify two dimensional shapes.</li> <li>b. Name and identify three dimensional shapes.</li> <li>c. Identify symmetrical figures and draw lines of symmetry.</li> <li>d. Identify and create polygons</li> <li>e. Use position words and grids to locate objects.</li> <li>g. Identify, create and extend patterns.</li> <li>h. Identify and name 1/2, 1/3, or 1/4 of a region or set</li> </ul>	<ul style="list-style-type: none"> <li>Student Math Journals</li> <li>Student Reference Book</li> <li>Mimio</li> <li>Slates</li> <li>Math Learning Stations</li> </ul>	<ul style="list-style-type: none"> <li>Tests</li> <li>Daily Work</li> <li>Homework</li> <li>Teacher Observations</li> </ul>
<b>1.5 Patterns, Functions, and Algebra</b>	<ul style="list-style-type: none"> <li>a. Use number and visual patterns to solve problems.</li> <li>b. Sequence numbers.</li> <li>c. Solve greater than, less than, and equal to problems.</li> <li>d. Use and understand the meaning of addition/subtraction number sentences, as well as symbols found within the number sentences.</li> <li>e. Develop counting skills (by 2s, 5s, 10s)</li> </ul>	<ul style="list-style-type: none"> <li>Student Math Journal</li> <li>Number Grid</li> <li>Mimio</li> <li>Manipulatives</li> <li>Math Games</li> <li>Slates</li> </ul>	<ul style="list-style-type: none"> <li>Tests</li> <li>Daily Work</li> <li>Homework</li> <li>Teacher Observations</li> </ul>
<b>1.6 Problem Solving</b>	<ul style="list-style-type: none"> <li>a. Apply skills and strategies to solve number problems.</li> <li>b. Apply skills and strategies to solve word problems.</li> </ul>		