

# ST. JOHN THE BAPTIST CATHOLIC SCHOOL

## School-Wide Mathematics Curriculum – Grade 1

Trimester	Content	Essential State Standard	Strands	Strategies	Assessments
I	Number Sense	<p>1.0 Students understand and use numbers up to 100.</p> <p>2.0 Students demonstrate the meaning of addition and subtraction and use these operations to solve problems</p> <p>3.0 Students use estimation strategies in computation and problem solving that involve numbers that use ones, tens and hundreds places</p>	<p>1.1 Count, read, and write whole numbers to 100.</p> <p>1.3 Represent equivalent forms of the same number through the use of physical models, diagrams and number expressions to 20.</p> <p>1.4 Count and group objects in ones and tens</p> <p>2.1 Know the +/- facts and commit them to memory (to 10)</p> <p>2.4 Count by 2's, 5's and 10's to 100</p> <p>2.5 Show the meaning of addition and subtraction</p> <p>3.1 Make reasonable estimates when comparing larger or smaller #s.</p>	<p>Daily calendar and # line (oral counting)</p> <p>H.M. Text for gr.1</p> <p>Box-it Bag-it Mathematics (gr. 1-2 edition)</p> <p>Flash cards and games</p> <p>Integration with other core subject areas, especially soc. Studies and science.</p>	<p>H.M. Mathematics chapter tests</p> <p>Teacher observation of student class work and homework and oral test of counting by 2's, 5's and 10's</p> <p>Mad minute tests</p>
II	Number Sense	<p>1.0 Students understand and use numbers up to 100.</p> <p>2.0 Students demonstrate the meaning of addition and subtraction and use these operations to solve problems</p> <p>3.0 Students use estimation strategies in computation and problem solving that involve numbers that use ones, tens and hundreds places</p>	<p>1.1 Count, read, and write whole numbers to 100.</p> <p>1.2 Compare and order numbers to 100 by using the symbols for &lt;, &gt;, =</p> <p>2.1 Know the +/- facts and commit them to memory (to 20)</p> <p>2.3 Identify 1 more than, 1 less than, 10 more than and 10 less than a given #.</p> <p>2.4 Count by 2's, 5's and 10's to 100</p> <p>2.5 Show the meaning of addition and subtraction</p> <p>3.1 Make reasonable estimates when comparing larger or smaller #s.</p>	<p>Daily calendar and # line.</p> <p>H.M. text and corresponding manipulatives</p> <p>Flash cards and games</p> <p>Box-it Bag-it Math</p> <p>Seasonal activities and integration with other core curriculum areas</p>	<p>H.M. Mathematics chapter tests</p> <p>Teacher observation of student class work and homework and oral test of counting by 2's, 5's and 10's</p> <p>Mad minute tests</p>

I	Algebra and Functions	1.0 Students use number sentences with operational symbols and expressions to solve problems	1.1 Write and solve number sentences from problem situations that express relationships involving addition and subtraction. 1.2 Understand the meaning of the symbols +, -, =. 1.3 Create problem situations that might lead to given # sentences involving + and -.	H.M. text Seasonal creative number stories (e.g. Halloween math stories)	H.M. Mathematics chapter tests Teacher observation of student class work and homework
II	Algebra and Functions		1.1 Write and solve number sentences from problem situations that express relationships involving addition and subtraction. 1.3 Create problem situations that might lead to given # sentences involving + and -.	Gr. 1 Text Seasonal activities	H.M. Mathematics chapter tests Teacher observation of student class work and homework
III	Measurement and Geometry	1.0 Students use direct comparison and nonstandard units to describe the measurement of objects.  2.0 Students identify common geometric figures, classify them by common attributes, and describe their relative position or their location in space.	1.1 Compare the length, weight, and volume of two or more objects by using direct comparison, or a nonstandard unit. 1.2 Tell time to the nearest half hour and relate time to events. 2.1 Identify, describe, and compare triangles, rectangles, squares, and circles, including the faces of 3-D objects. 2.2 Classify familiar plane and solid objects by common attributes, such as color, position, shape, size, roundness, or number of corners, and explain which attributes are being used for classification. 2.3 Give and follow directions about	Gr. 1 Text Activities with Real objects	H.M. Mathematics chapter tests Teacher observation of student class work and homework

			location 2.4 Arrange and describe objects in space by proximity, position, and direction.		
I,II	Statistics, Data Analysis, and Probability	1.0 Students organize, represent, and compare data by category on simple graphs and charts. 2.0 Students sort objects and create and describe patterns by numbers, shapes, sizes, rhythms, or colors.	2.0 Sort objects and data by common attributes and describe the categories. 3.0 Represent and compare data by using pictures, bar graphs, tally charts, and picture graphs. 2.1 Describe, extend, and explain ways to get to a next element in simple repeating patterns.	Gr. 1 text Box-it Bag –it and AIMS activities	H.M. Mathematics chapter tests Teacher observation of student class work and homework
I,II,III	Mathematical Reasoning	1.0 Students make decisions about how to set up a problem. 2.0 Students solve problems and justify their reasoning. 3.0 Students note connections between one problem and another.	1.1 Determine the approach, materials and strategies to be used. 1.2 Use tools, such as manipulatives or sketches, to model problems. 2.1 Explain the reasoning used and justify the procedure selected. 2.2 Make precise calculations and check the validity of the results from the context of the problem.	H.M. gr. 1 text	H.M. Mathematics chapter tests Teacher observation of student class work and homework