

# Grade 4 ~ MATH ~ St. Bernard School Curriculum Map

Subject: Math		Grade: 4
Dates:	Essential Questions:	Standards:
Trimester 1	<ul style="list-style-type: none"> <li>❖ How does place value help represent the value of numbers?</li> <li>❖ What strategies can I use to add or subtract?</li> <li>❖ How are multiplication and division related?</li> <li>❖ How can I communicate multiplication?</li> <li>❖ How can I multiply by a two-digit number?</li> </ul>	<ul style="list-style-type: none"> <li>➤ CCSS.MATH.CONTENT.4.NBT.1 CCSS.MATH.CONTENT.4.NBT.2</li> <li>➤ CCSS.MATH.CONTENT.4.NBT.3 CCSS.MATH.CONTENT.4.NBT.4</li> <li>➤ CCSS.MATH.CONTENT.4.NBT.5 CCSS.MATH.CONTENT.4.NBT.6</li> <li>➤ CCSS.MATH.CONTENT.4.OA.1 CCSS.MATH.CONTENT.4.OA.2</li> <li>➤ CCSS.MATH.CONTENT.4.OA.3 CCSS.MATH.CONTENT.4.OA.4</li> <li>➤ CCSS.MATH.CONTENT.4.OA.5</li> </ul>
Content:		Objectives:
<p><b>Numbers and Operations in Base Ten</b></p> <ul style="list-style-type: none"> <li>• <b>1 Place-value</b> <ul style="list-style-type: none"> <li>○ A digit in each place represents ten times what it represents in the place to its right</li> <li>○ A digit in the hundred thousands place has a value of 100,000 times the digit</li> <li>○ A digit in the thousands place has a value of 1,000 times the digit</li> <li>○ Standard form shows only digits</li> <li>○ Expanded form shows the sum of the value of the digits</li> <li>○ Word form uses words to represent numbers</li> <li>○ Use the symbols <math>&lt;</math>, <math>&gt;</math>, and <math>=</math> to compare two numbers</li> <li>○ Use a place value chart</li> <li>○ Use a number line</li> <li>○ Numbers can be rounded to different place value positions</li> <li>○ Rounded numbers are easier to work with when solving problems</li> <li>○ Use place value to write and compare</li> <li>○</li> </ul> </li> <li>• <b>2 Add and Subtract Whole Numbers</b> <ul style="list-style-type: none"> <li>○ There are different ways to round numbers</li> <li>○ Rounding can be used to estimate sums and differences</li> <li>○ Begin by adding or subtracting the ones then the tens and so on</li> <li>○ Regroup if necessary</li> <li>○ A variable can be used to represent the unknown quantity in an equation</li> <li>○ Mental math can be used to check the reasonableness of answers</li> </ul> </li> </ul>		<p><b>1 Place Value</b></p> <ul style="list-style-type: none"> <li>○ Identify the place value of digits in multi-digit numbers</li> <li>○ Read and write multi-digit whole numbers.</li> <li>○ Compare numbers using a number line and a place-value chart.</li> <li>○ Order numbers by using a place-value chart and comparing the digit values.</li> <li>○ Estimate numbers by rounding</li> </ul> <p><b>2 Add and Subtract Whole Numbers</b></p> <ul style="list-style-type: none"> <li>○ Use addition properties and subtraction rules to add and subtract</li> <li>○ Use patterns to solve addition and subtraction problems</li> <li>○ Use mental math to add and subtract</li> <li>○ Estimate sums and differences of multi-digit numbers</li> <li>○ Add multi digit whole numbers</li> <li>○ Subtract multi-digit whole numbers</li> <li>○ Subtract multi-digit numbers, when some digits are zeros</li> <li>○ Solve problems by drawing a diagram</li> <li>○ Solve multi-step word problems using addition and subtraction</li> </ul>

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- A given rule can be used to generate terms in a pattern of numbers
- Other features of number patterns that are not described by a rule can be identified.

### • 3 Understand Multiplication and Division

- Multiplication and division are opposite operations
- Multiplication facts can be used to solve division problems
- The operations of subtraction and division are related
- One way to divide numbers is to use repeated subtraction
- Phrases like times as many, times more, and times as much indicate comparison problems.
- Verbal comparison statements can be represented using multiplication equations
- The commutative property of multiplication states that the order in which numbers are multiplied does not change the product
- The Associate Property of Multiplication states that the way in which numbers are grouped when they are multiplied does not change the product.
- A number can be broken down or decomposed into its factors
- A Whole number is a multiple of each of its factors.

### • 4 Multiply with One-digit numbers

- Use concepts of place value
- Use basic facts and patterns to multiply
- One way is to round to the greatest place value
- Use basic facts and patterns to multiply
- Use base ten blocks to model the problem
- Use place value to find the product
- The distributive property makes multiplying greater numbers easier
- The distributive property combines multiplication and addition
- Multiply the one digit number by the digit in each place of the greater number, beginning with the ones place.

### 3 Understand Multiplication and Division

- Understand how multiplication and division are related
- Relate division and subtraction
- Recognize the comparison of two groups as another strategy to use when multiplying.
- Use comparison to solve problems
- Use multiplication properties and division rules.
- Use the Associate Property of Multiplication to solve problems
- Find factors and multiples of whole numbers
- Check Answers for reasonableness.

### 4 Multiply with One-digit Numbers

- Multiply multiples of 10, 100, and 1,000 using basic facts and patterns
- Estimate products by rounding
- Explore multiplication using models
- Explore multiplication using area models and partial products
- Multiply a two-digit number by a one-digit number.
- Explore multiplication with regrouping using models
- Use the distributive property to make multiplication easier
- Multiply a two digit number by a one digit number
- Multiply a multi-digit number by a one digit number
- Determine if a problem needs an estimate or an exact answer
- Multiply multi-digit numbers with zeros by a one digit number.

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<ul style="list-style-type: none"> <li>● <b>5 Multiply with Two-Digit Numbers</b> <ul style="list-style-type: none"> <li>○ The Associative Property of Multiplication can be used to multiply two numbers mentally</li> <li>○ Round each number to the nearest 10</li> <li>○ If both factors are rounded up, the estimate is greater than the actual product</li> <li>○ If both factors are rounded down, the estimate is less than the actual product.</li> <li>○ The Distributive property can be used to multiply two two-digit numbers</li> <li>○ Use partial products</li> <li>○ Use standard algorithm</li> <li>○ Use equations with a variable to represent the unknown quantity</li> <li>○ Use estimation to check that the answer is reasonable</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● <b>5 Multiply with two-digit Numbers</b> <ul style="list-style-type: none"> <li>○ Use problems and algorithms to multiply by tens</li> <li>○ Estimate products by rounding</li> <li>○ Explore multiplying by two-digit numbers</li> <li>○ Multiplying two, two-digit numbers</li> <li>○ Use multiplication to solve multi-step word problems</li> <li>○ Solve problems by making a table</li> </ul> </li> </ul>
<b>Assessments:</b>	<b>Materials:</b>
<p><b>Daily/Weekly formative assessments</b></p> <ul style="list-style-type: none"> <li>● Exit tickets</li> <li>● Verbal responses</li> <li>● Performance tasks</li> <li>● Exhibitions/demonstrations</li> <li>● “Guided Practice” activities</li> <li>● Essential question reflections/responses</li> <li>● Observations</li> <li>● Self/peer evaluation</li> <li>● rubrics</li> </ul>	<ul style="list-style-type: none"> <li>● “My Math” text (vol. 1 and 2)</li> <li>● “My Math: Interactive Guide”</li> <li>● “My Math: Think Smart for the Smarter Balanced Assessment”</li> <li>● “My Math: Real-World Problem-Solving Readers”</li> <li>● My Math: Assessment Masters”</li> <li>● Projector</li> <li>● Large white-board</li> <li>● Mini-Whiteboards</li> <li>● Manipulatives</li> </ul>

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Chapter/Unit summative assessments	<ul style="list-style-type: none"><li>• Digital resources<ul style="list-style-type: none"><li>▪ <a href="https://www.mathsisfun.com/">https://www.mathsisfun.com/</a></li><li>▪ <a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a></li><li>▪ <a href="https://www.ixl.com/">https://www.ixl.com/</a></li><li>▪ <a href="http://www.webmath.com/">http://www.webmath.com/</a></li><li>▪ <a href="https://www.freemathhelp.com/">https://www.freemathhelp.com/</a></li><li>▪ <a href="https://www.freemathhelp.com/">https://www.freemathhelp.com/</a></li><li>▪ <a href="https://www.math-drills.com/">https://www.math-drills.com/</a></li><li>▪ <a href="http://www.k5learning.com/free-math-worksheets">http://www.k5learning.com/free-math-worksheets</a></li><li>▪ <a href="http://www.math-aids.com/">http://www.math-aids.com/</a></li><li>▪ <a href="https://www.mathworksheetsland.com/">https://www.mathworksheetsland.com/</a></li><li>▪ <a href="https://www.worksheetworks.com/math.html">https://www.worksheetworks.com/math.html</a></li></ul></li></ul>
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Subject: Math		Grade: 4
Dates:	Essential Questions:	Standards:
Trimester 2	<ul style="list-style-type: none"> <li>❖ How does division affect numbers?</li> <li>❖ How are Patterns used in Mathematics?</li> <li>❖ How can different fractions name the same amount?</li> <li>❖ How can I use operations to model real world fractions?</li> <li>❖ How are fractions and decimals related?</li> </ul>	<ul style="list-style-type: none"> <li>➤ CCSS.MATH.CONTENT.4.OA.4</li> <li>➤ CCSS.MATH.CONTENT.4.NF.1</li> <li>➤ CCSS.MATH.CONTENT.4.NF.2</li> <li>➤ CCSS.MATH.CONTENT.4.NF.3a</li> <li>➤ CCSS.MATH.CONTENT.4.NF.3b</li> <li>➤ CCSS.MATH.CONTENT.4.NF.3c</li> <li>➤ CCSS.MATH.CONTENT.4.NF.3d</li> <li>➤ CCSS.MATH.CONTENT.4.NF.4a</li> <li>➤ CCSS.MATH.CONTENT.4.NF.4b</li> <li>➤ CCSS.MATH.CONTENT.4.NF.5</li> <li>➤ CCSS.MATH.CONTENT.4.NF.6</li> <li>➤ CCSS.MATH.CONTENT.4.NF.7</li> </ul>
Content:		Objectives:
<p><b>Numbers and Operations in Base Ten</b></p> <ul style="list-style-type: none"> <li>• <b>6 Divide by a One-digit Number</b> <ul style="list-style-type: none"> <li>○ Use base-ten blocks</li> <li>○ Divide by forming equal groups</li> <li>○ The amount left over when a number cannot be divided into equal groups is the remainder</li> <li>○ Depending on the problem, the amount left over may be dropped, raised to the next number, or become part of the answer.</li> <li>○ Estimation is used at each step of the division algorithm</li> <li>○ Estimation is used to check</li> <li>○ Reasonableness of solutions</li> <li>○ Use basic facts and patterns</li> <li>○ Connect multiplication and division using fact families and inverse operations</li> <li>○ The algorithm use to find 1 digit quotients can be used find greater quotient.</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>• <b>6 Divide by a One-digit Number</b> <ul style="list-style-type: none"> <li>○ Use basic facts and patterns to divide mentally</li> <li>○ Estimate quotients using compatible numbers, basic facts and place value.</li> <li>○ Use place value and models to explore dividing by one-digit numbers</li> <li>○ Solve problems by making a model</li> <li>○ Divide with remainders and check using multiplication and addition.</li> <li>○ Interpret what the remainder means in the context if division problem.</li> <li>○ Determine where to place the first digit dividing</li> <li>○ Use the Distributive Property and partial quotients to divide.</li> <li>○ Solve division problems with greater numbers.</li> <li>○ Solve division problems that result in quotients that gave zeros</li> <li>○ Solve multi-step word problems using more than one operation.</li> </ul> </li> </ul>

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## Operations in Algebraic Thinking

### • 7 Patterns and Sequences

- Find a rule that describes the relationship between the numbers in a pattern
- Use the rule to extend the pattern
- A sequence is an arrangement of terms in a pattern
- Features of sequence that are not describe by a rule can be identified.
- Write an equation to describe a pattern between the input and output numbers in a table
- Use equations to extend patterns.
- Rules that tell which operations to perform first are called the order of operations
- The order of operations ensures that a problem can have only one correct answers.
- Represent real life situations using equations with two or more operations
- Substitute input values into equations to find output values

## Number and Operations- Fractions

### • 8 Fractions

- A whole number is a multiple of each of its factors
- Fractions that represent the same part of a number are equivalent
- The parts of equivalent fractions may be different, but the two fractions themselves are the same size
- Multiplication and division can be used to find equivalent fractions
- To create an equivalent fraction, multiply or divide the numerator and denominator of a fraction by the same number
- Two fractions with different numerators and denominator of a fraction by the same number
- Two fractions with different numerators and different numerators and different denominators can be compared using a benchmark fraction
- A benchmark fraction is a common fraction like  $\frac{1}{2}$

### 7 Patterns and Sequences

- Describe nonnumeric growing and repeating patterns
- Identify, describe, and extend numeric patterns
- Extend patterns and write observation about the pattern
- Look for a pattern to solve problems
- Find and use rules to write addition and subtraction equations
- Find and use rules to write multiplication and division equations.
- Use the order of operations to solve problems
- Explore equations with two operations
- Use table s to recognize and write equations with two or more operations

### 8 Fractions

- Find Factors and multiples of whole numbers
- Determine if a number is prime or composite
- Explore equivalent fractions
- Find equivalent fractions
- Write a fraction in simplest form.
- Compare and order fractions.
- Use benchmark fractions to compare and order numbers.
- Use logical reasoning to solve problems
- Represent mixed numbers by decomposing them into a sum of whole numbers and fruit and unit fractions.
- Write mixed numbers and improper fractions.

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<ul style="list-style-type: none"> <li>● <b>9 Operations with Fractions</b> <ul style="list-style-type: none"> <li>○ Fractions have the same denominators are called like fractions</li> <li>○ Unit fractions can be used to model the addition of like fractions</li> <li>○ Adding fractions is like joining parts and subtracting fractions is like separating parts of the same whole</li> <li>○ To add or subtract like fractions, add or subtract the numerators and keep the same denominator</li> <li>○ Replace mixed numbers with equivalent improper fractions</li> <li>○ Check subtraction of mixed numbers by using addition</li> <li>○ Use models</li> <li>○ Use repeated addition</li> <li>○ Use equations and properties</li> </ul> </li>   <li>● <b>10 Fractions and Decimals</b> <ul style="list-style-type: none"> <li>○ A digit in one place represents 10 times what it represents in the place to its right</li> <li>○ A base-ten model can be used to show tenths</li> <li>○ A place value chart can be used to show tenths and hundredths</li> <li>○ Use place value</li> <li>○ Use a number line</li> <li>○ Decimals and fractions can show equivalent amounts</li> <li>○ Use models or number lines</li> <li>○ Write the tenths fraction as an equivalent fraction with a denominator</li> </ul> </li>   <li>●</li> </ul>	<ul style="list-style-type: none"> <li>● <b>9 Operations with Fractions</b> <ul style="list-style-type: none"> <li>○ Use models to add like fractions</li> <li>○ Add like fractions</li> <li>○ Use models to subtract like fractions</li> <li>○ Subtract like fractions</li> <li>○ Work backward to solve problems</li> <li>○ Add Mixed numbers</li> <li>○ Subtract mixed numbers</li> <li>○ Use models to multiply fraction</li> <li>○ Multiply fractions by whole numbers</li> </ul> </li>   <li>● <b>10 Fractions and Decimals</b> <ul style="list-style-type: none"> <li>○ Explore using place value charts and grids to model decimals</li> <li>○ Model and describe tenths as part of the base-ten system</li> <li>○ Model and describe hundredths as part of the base ten system,</li> <li>○ Explore using grids and number lines to model the relationship between decimals and fractions</li> <li>○ Identify, read, and write tenths and hundredths as decimals and fractions</li> <li>○ Use place value and equivalent fractions to add two fractions with respective denominators 10 and 100</li> <li>○ Compare and order decimals to hundredths by reasoning about their size</li> <li>○ Find extra or missing information when solving problems</li> </ul> </li> </ul>
<b>Assessments:</b>	<b>Materials:</b>
<p>Daily/Weekly formative assessments</p> <ul style="list-style-type: none"> <li>● Exit tickets</li> <li>● Verbal responses</li> <li>● Performance tasks</li> <li>● Exhibitions/demonstrations</li> <li>● “Guided Practice” activities</li> <li>● Essential question reflections/responses</li> </ul>	<ul style="list-style-type: none"> <li>● “My Math” text (vol. 1 and 2)</li> <li>● “My Math: Interactive Guide”</li> <li>● “My Math: Think Smart for the Smarter Balanced Assessment”</li> <li>● “My Math: Real-World Problem-Solving Readers”</li> <li>● My Math: Assessment Masters”</li> <li>● Projector</li> <li>● Large white-board</li> </ul>

## Grade 4 ~ MATH ~ St. Bernard School Curriculum Map

- Observations
- Self/peer evaluation
- rubrics

Chapter/Unit summative assessments

- Mini-Whiteboards
- Manipulatives
- Digital resources
  - <https://www.mathsisfun.com/>
  - <https://www.khanacademy.org/>
  - <https://www.ixl.com/>
  - <http://www.webmath.com/>
  - <https://www.freemathhelp.com/>
  - <https://www.freemathhelp.com/>
  - <https://www.math-drills.com/>
  - <http://www.k5learning.com/free-math-worksheets>
  - <http://www.math-aids.com/>
  - <https://www.mathworksheetsland.com/>
  - <https://www.worksheetworks.com/math.html>



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<b>Subject: Math</b>		<b>Grade: 4</b>	
<b>Dates:</b>	<b>Essential Questions:</b>	<b>Standards:</b>	
Trimester 3	<ul style="list-style-type: none"> <li>❖ Why do we convert measurements?</li> <li>❖ How can conversion of measurement help me solve real world problems?</li> <li>❖ Why is it important to measure perimeter and area</li> <li>❖ How are different ideas about geometry connected?</li> </ul>	➤	
<b>Content:</b>		<b>Objectives:</b>	
<b>Measurement and Data</b> <ul style="list-style-type: none"> <li>• <b>11 Customary Measurement</b> <ul style="list-style-type: none"> <li>○ Inch, foot, and yard are units of length in the customary system</li> <li>○ To convert larger units in the customary system to smaller units, multiply</li> <li>○ Capacity is the amount of liquid that a container can hold</li> <li>○ Cups, pints, quarts, and gallons are units of capacity in the customary system</li> <li>○ Ounces, pounds, and tons are units of weight in the customary system</li> <li>○ The method that was used to convert units of length, capacity, and weight can be used to convert units of time</li> <li>○ Measurements can be used recorded, in two column tables</li> <li>○ These line plots assemble rulers</li> <li>○ Use the line plots to solve problems involving addition and subtraction</li> </ul> </li> <li>• <b>12 Metric Measurement</b> <ul style="list-style-type: none"> <li>○ Millimeter, centimeter, meter, and kilometer are units of length in the metric system</li> <li>○ Before measuring the length of an object, first estimate the length to decide which unit of measurement is best to use</li> <li>○ Capacity is the amount of liquid that a container can hold</li> <li>○ Liter and milliliter are units of capacity in the metric system</li> <li>○ Mass is the amount of matter that an object has</li> <li>○ Mass is different than weight</li> <li>○ The method that was used to convert customary units can be used to convert metric units</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>• <b>11 Customary Measurement</b> <ul style="list-style-type: none"> <li>○ Estimate and measure length using customary units</li> <li>○ Convert customary units of length</li> <li>○ Estimate and measure customary capacities</li> <li>○ Convert customary units of capacity</li> <li>○ Estimate and measure customary units of Weight</li> <li>○ Convert customary units of weight</li> <li>○ Convert units in time</li> <li>○ Display measurement date in a line plot</li> <li>○ Solve problems involving measurement</li> <li>○ Solve problems using the guess, check, and revise strategy.</li> </ul> </li> <li>• <b>12 Metric Measurement</b> <ul style="list-style-type: none"> <li>○ Estimate and measure lengths within the metric system</li> <li>○ Estimate and measure metric capacities</li> <li>○ Estimate and measure mass and learn the difference between weight and mass</li> <li>○ Make an organized list to solve problems</li> <li>○ Convert metric units</li> <li>○ Solve problems involving measurement</li> </ul> </li> </ul>	

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<ul style="list-style-type: none"> <li>○ To convert larger units to smaller units, multiply; to convert smaller units to larger units, divide.</li> <li>○ If necessary convert so that all measurements in a problem have the same units</li> <li>○ Use the four operations to solve</li> </ul> <ul style="list-style-type: none"> <li>● <b>13 Perimeter and Area</b> <ul style="list-style-type: none"> <li>○ Add side lengths</li> <li>○ The perimeter of a rectangle is <math>P = (2 \times l) + (2 \times w)</math>, where <math>l</math> is the length and <math>w</math> is the width.</li> <li>○ The perimeter of a square is <math>P = 4s</math>, where “<math>s</math>” is the length</li> <li>○ Count unit squares</li> <li>○ Use the formula <math>A = L \times W</math></li> <li>○ Use the Formula <math>A = S \times S</math></li> <li>○ Two rectangles can have the same perimeters, the same areas, or both.</li> </ul> </li> <li>● <b>14 Geometry</b> <ul style="list-style-type: none"> <li>○ Parallel lines are the same distance apart and never meet</li> <li>○ Perpendicular lines form right angles</li> <li>○ Use a protractor</li> <li>○ Use degrees to describe the angle measures</li> <li>○ Use the measures of the angles</li> <li>○ Triangles may be acute (all acute angles), right (1 right angles, or obtuse (1 obtuse angle)</li> <li>○ Classify the angles</li> <li>○ Determine if there are any sides that are parallel or perpendicular</li> <li>○ A line of symmetry is a line across a figure such that the figure can be folded along the line into matching parts</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ Find the perimeter of a figure</li> <li>○ Solve a simpler problem to solve problems</li> <li>○ Explore the area of a figure</li> <li>○ Find the areas of a rectangles and squares</li> <li>○ Relate areas to perimeter</li> </ul> <ul style="list-style-type: none"> <li>● <b>13 Perimeter and Area</b> <ul style="list-style-type: none"> <li>○ Find the perimeter of a figure</li> <li>○ Solve a simpler problem to solve problems</li> <li>○ Explore the area of a figure</li> <li>○ Find the areas of a rectangles and squares</li> <li>○ Relate areas to perimeter</li> </ul> </li> <li>● <b>14 Geometry</b> <ul style="list-style-type: none"> <li>○ Draw points, lines, line segments, and rays and identify these in two dimensional figures</li> <li>○ Draw Parallel, intersecting, and perpendicular lines and identify these in two dimensional figures</li> <li>○ Understand concepts of angles and angle measurement</li> <li>○ Use concepts of angle measurement to classify angles</li> <li>○ Use a protractor to measure angles to the nearest degree.</li> <li>○ Use a protractor to draw angles of a specific measure.</li> <li>○ Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical situations.</li> <li>○ Classify triangles based on angel measure and describe triangles using their attributes.</li> <li>○ Identify figures with line symmetry and draw lines of symmetry</li> <li>○ Solve problems</li> </ul> </li> </ul>
<p><b>Assessments:</b></p>	<p><b>Materials:</b></p>
<p>Daily/Weekly formative assessments</p> <ul style="list-style-type: none"> <li>● Exit tickets</li> </ul>	<ul style="list-style-type: none"> <li>● “My Math” text (vol. 1 and 2)</li> <li>● “My Math: Interactive Guide”</li> </ul>

## Grade 4 ~ MATH ~ St. Bernard School Curriculum Map

- Verbal responses
- Performance tasks
- Exhibitions/demonstrations
- “Guided Practice” activities
- Essential question reflections/responses
- Observations
- Self/peer evaluation
- rubrics

Chapter/Unit summative assessments

- “My Math: Think Smart for the Smarter Balanced Assessment”
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- Digital resources
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  - <https://www.ixl.com/>
  - <http://www.webmath.com/>
  - <https://www.freemathhelp.com/>
  - <https://www.freemathhelp.com/>
  - <https://www.math-drills.com/>
  - <http://www.k5learning.com/free-math-worksheets>
  - <http://www.math-aids.com/>
  - <https://www.mathworksheetsland.com/>
  - <https://www.worksheetworks.com/math.html>