

Month	Math Objective	Program Materials/Resources	Vocabulary	Assessment
September 9/4- 9/25 Topic 1 Numbers 0-5 Lesson 1-10 Review and assessment	Topic 1 <ul style="list-style-type: none"> <li>• Count 1, 2,3 objects</li> <li>• Count groups of 1, 2,3 objects shown in different ways</li> <li>• Read and write numbers 1,2,3</li> <li>• Count 4 and 5 objects</li> <li>• Count groups of 4 and 5 objects shown in different ways</li> <li>• Read and write numbers 4 and 5</li> <li>• Use 0 to tell when there are no objects</li> <li>• Read and write the number 0</li> <li>• Count to the number 5</li> <li>• Use math to explain what you know about counting</li> </ul>	Topic 1 <ul style="list-style-type: none"> <li>• Counters</li> <li>• Crayons</li> <li>• Plastic bags</li> <li>• Buttons</li> <li>• Pasta or beans</li> <li>• Number cards 1-5</li> <li>• Cubes</li> <li>• Paper bag</li> <li>• Cups</li> <li>• 0-5 number cubes</li> <li>• Baskets</li> <li>• Construction paper</li> <li>• Tape</li> <li>• 2-color counters</li> <li>• Blocks</li> </ul>	Topic 1 <ul style="list-style-type: none"> <li>• Count</li> <li>• One</li> <li>• Two</li> <li>• Three</li> <li>• Number</li> <li>• Four</li> <li>• Five</li> <li>• Zero</li> <li>• Order</li> </ul>	AIMS Web Grade K Readiness test Topic 1 Assessment
October 9/26-10/17 Topic 2 Compare numbers 0-5 Lesson 1-5 review and assessment  10/18-11/01 Topic 3 Numbers 6-10 Lesson 1-8 review and assessment	Topic 2 <ul style="list-style-type: none"> <li>• Compare groups to see if they are equal by matching</li> <li>• Tell whether one group is greater in number than another group</li> <li>• Tell whether one group is less in number than another group</li> <li>• Compare numbers</li> </ul>	Topic 2 <ul style="list-style-type: none"> <li>• Piece of string</li> <li>• Two color Counters</li> <li>• Connecting Cubes</li> <li>• Paper bags</li> </ul> Topic 3 <ul style="list-style-type: none"> <li>• Two-Color counters</li> <li>• Connecting cubes</li> <li>• Number cards 0-10</li> <li>• Crayons</li> </ul>	Topic 2 <ul style="list-style-type: none"> <li>• Compare</li> <li>• Equal</li> <li>• Group</li> <li>• Same number as</li> <li>• Greater than</li> <li>• Less than</li> <li>• Model</li> </ul> Topic 3 <ul style="list-style-type: none"> <li>• Six</li> <li>• Seven</li> <li>• Eight</li> </ul>	Topic 2 Assessment Topic 3 Assessment

	<ul style="list-style-type: none"> <li>Use objects, drawing, and numbers to compare numbers</li> </ul> <p>Topic 3</p> <ul style="list-style-type: none"> <li>Count the numbers 6 and 7</li> <li>Read and write the numbers 6 and 7</li> <li>Count the numbers 8 and 9</li> <li>Read and write 8 and 9</li> <li>Count to the number 10</li> <li>Read and write the number 10</li> </ul>		<ul style="list-style-type: none"> <li>Nine</li> <li>Ten</li> </ul>	
<p>November 11/4- 11/18 Topic 4 Compare numbers 0-10 lesson 1-5 Review and topic assessment Benchmark test Topics 1-4</p> <p>11/ 19-11/22 Ordinal Numbers</p> <p>12/2-12/13 Topic 5 Classify and count data Lesson 1-4 review and assessment</p>	<p>Topic 4</p> <ul style="list-style-type: none"> <li>Compare groups of up to ten objects</li> <li>Compare groups of numbers using numerals to 10</li> <li>Compare groups of numbers by counting</li> <li>Compare 2 numbers</li> <li>Repeat something from one problem to help solve another problem</li> </ul> <p>Ordinal Numbers</p> <ul style="list-style-type: none"> <li>Identify positions of up to 10 objects in a line</li> </ul> <p>Topic 5</p> <ul style="list-style-type: none"> <li>Classify objects into categories and tell</li> </ul>	<p>Topic 4</p> <ul style="list-style-type: none"> <li>Connecting cubes</li> <li>Paper bags</li> <li>Counters</li> <li>10-frames</li> <li>Two-color counters</li> </ul> <p>Ordinal Numbers</p> <ul style="list-style-type: none"> <li>Counting cards</li> <li>Counting bears</li> </ul> <p>Topic 5</p> <ul style="list-style-type: none"> <li>Two-color counters</li> </ul>	<p>Topic 4</p> <ul style="list-style-type: none"> <li>Compare</li> <li>Equal</li> <li>Group</li> <li>Same number as</li> <li>Greater than</li> <li>Less than</li> <li>Model</li> </ul> <p>Ordinal Numbers</p> <ul style="list-style-type: none"> <li>First</li> <li>Second</li> <li>Third</li> <li>Fourth</li> <li>Fifth</li> <li>Sixth</li> <li>Seventh</li> <li>Eighth</li> <li>Ninth</li> <li>Tenth</li> </ul>	<p>Topic 4 assessment Benchmark test Topics 1-4</p>

	<p>why they are in each category</p> <ul style="list-style-type: none"> <li>• Count how many objects are in different categories</li> <li>• Use counting to compare how many objects are in categories</li> <li>• Tell whether the way objects have been sorted, counted, and compared make sense</li> </ul>		<p>Topic 5</p> <ul style="list-style-type: none"> <li>• Category</li> <li>• Classify</li> <li>• Chart</li> <li>• Tally Mark</li> </ul>	
<p>December 12/16 - 1/10 Topic 6 Understand addition Lesson 1-8 Review and Assessment</p>	<p>Topic 6</p> <ul style="list-style-type: none"> <li>• Show numbers in many ways</li> <li>• Represent addition as adding to a number</li> <li>• Represent addition as putting two or more numbers together</li> <li>• Write an equation to show addition</li> <li>• Solve addition problems</li> <li>• Use equations to represent and explain addition</li> <li>• Use patterns to add numbers together</li> <li>• Model adding different numbers together by drawing, counting, or writing equation</li> </ul>	<p>Topic 6</p> <ul style="list-style-type: none"> <li>• Two-color counters</li> <li>• Connecting cubes</li> <li>• Crayons</li> </ul>	<p>Topic 6</p> <ul style="list-style-type: none"> <li>• Join</li> <li>• In all</li> <li>• Part</li> <li>• Whole</li> <li>• Addition sentence</li> <li>• Add</li> <li>• Plus sign</li> <li>• Equal sign</li> <li>• Equation</li> <li>• Sum</li> </ul>	<p>Topic 5 Assessment</p>

<p>January</p> <p>1/13- 1/24</p> <p>Topic 7</p> <p>Understand subtraction lesson 1-7</p> <p>Review and Assessment</p>	<p>Topic 7</p> <ul style="list-style-type: none"> <li>• Take apart a number and tell the parts</li> <li>• Represent subtraction as taking away from a whole</li> <li>• Write an equation to show subtraction</li> <li>• Find the difference of two numbers</li> <li>• Find patterns in Subtraction equations</li> <li>• Use tools to subtract numbers</li> </ul>	<p>Topic 7</p> <ul style="list-style-type: none"> <li>• Two-color counters</li> <li>• Connecting cubes</li> <li>• Number cards 0-10</li> </ul>	<p>Topic 7</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Separate</li> <li>• Subtraction Sentence</li> <li>• Take away</li> <li>• Difference</li> <li>• Subtract</li> <li>• Minus sign</li> </ul>	<p>Topic 7 assessment</p>
<p>February</p> <p>1/27- 2/14</p> <p>Topic 8</p> <p>More Addition and subtraction</p> <p>Lesson 1-10</p> <p>Review and Assessments</p>	<p>Topic 8</p> <ul style="list-style-type: none"> <li>• Write an addition equation to solve a word problem</li> <li>• Solve related addition and subtraction equations</li> <li>• Reason about numbers and operations</li> <li>• Write addition and subtraction equations within 5</li> </ul>	<p>Topic 8</p> <ul style="list-style-type: none"> <li>• Two-color counters</li> <li>• Crayons</li> <li>• Ten frame</li> <li>• Connecting cubes</li> </ul>	<p>Topic 8</p> <ul style="list-style-type: none"> <li>• Break Apart</li> <li>• Operation</li> </ul>	<p>Topic assessment 8</p> <p>Cumulative/Benchmark assessment 1-8</p>

	<p>and remember them</p> <ul style="list-style-type: none"> <li>• Write an addition equation to solve a word problem</li> <li>• Show how to make a group of 10</li> <li>• Find number partners for ten</li> <li>• Find a missing part to make 10</li> </ul>			
<p>March 2/24-3/7 Topic 9 Count numbers to 20 Review and assessment 3/10-3/28 Topic 10 Compose and decompose numbers 11-19 Review and assessment</p>	<p>Topic 9</p> <ul style="list-style-type: none"> <li>• Count and write the numbers 11 and 12</li> <li>• Count and write the numbers 13, 14, 15</li> <li>• Count and write the numbers 16 and 17</li> <li>• Count and write the numbers 18, 19, 20</li> <li>• Count forward to any number to a number within 20</li> <li>• Count to find how many are in a group</li> <li>• Use reasoning to count and write numbers to the number 20</li> </ul> <p>Topic 10</p> <ul style="list-style-type: none"> <li>• Use drawings and equations to make the numbers 11, 12 and 13</li> </ul>	<p>Topic 9</p> <ul style="list-style-type: none"> <li>• Two-counters</li> <li>• Number cards 0-20</li> <li>• Connecting cubes</li> <li>• Double ten frame</li> </ul> <p>Topic 10</p> <ul style="list-style-type: none"> <li>• Two-color counters</li> <li>• Connecting cubes</li> <li>• Double ten frame</li> <li>• Crayons</li> </ul>	<p>Topic 9</p> <ul style="list-style-type: none"> <li>• Eleven</li> <li>• Twelve</li> <li>• Thirteen</li> <li>• Fourteen</li> <li>• Fifteen</li> <li>• Sixteen</li> <li>• Seventeen</li> <li>• Eighteen</li> <li>• Nineteen</li> <li>• Twenty</li> <li>• Row</li> </ul> <p>Topic 10</p> <ul style="list-style-type: none"> <li>• How many more</li> </ul>	<p>Topic 9 assessment Topic 10 assessment</p>

	<ul style="list-style-type: none"> <li>• Make the numbers 14, 15, 16</li> <li>• Make the numbers 17,18 and 19</li> <li>• Find parts of the numbers 11, 12, 13 when one part is ten</li> <li>• Find parts of the numbers 14, 15,16 when one part is 10</li> <li>• Find parts of the numbers 17, 18, 19 when one of the parts is 10</li> <li>• Use patterns to make and find the parts of numbers to 19</li> </ul>			
<p>April Topic 11 3/31-4/11 Count Numbers to 100 Review and assessment</p> <p>4/22-5/2 Topic 12 Identify and describe Shapes Lesson 1-7 Review and assessment</p>	<p>Topic 11</p> <ul style="list-style-type: none"> <li>• Use patterns to count to 30</li> <li>• Use patterns to count to 50</li> <li>• Skip count by 10s to 100</li> <li>• Count forward from any number to 100 by 1s</li> <li>• See patterns when counting</li> </ul> <p>Topic 12</p> <ul style="list-style-type: none"> <li>• Name shapes as flat or solids</li> <li>• Identify and describe circles and triangles</li> <li>• Identify and describes squares</li> </ul>	<p>Topic 11</p> <ul style="list-style-type: none"> <li>• Two-color counters</li> <li>• 100s chart</li> <li>• Crayons</li> </ul> <p>Topic 12</p> <ul style="list-style-type: none"> <li>• 2D &amp; 3D Shapes</li> <li>• Circles</li> <li>• Triangles</li> <li>• Squares</li> <li>• Rectangles</li> <li>• Hexagons</li> <li>• Patterns blocks</li> <li>• Real-life objects</li> <li>• Number cards 1-10</li> <li>• Connecting cubes</li> <li>• Two-color counters</li> </ul>	<p>Topic 11</p> <ul style="list-style-type: none"> <li>• Column</li> <li>• Ones</li> <li>• Pattern</li> <li>• Tens</li> <li>• Decade</li> <li>• Hundred Chart</li> </ul> <p>Topic 12</p> <ul style="list-style-type: none"> <li>• Sort</li> <li>• Two-Dimensional Shape (flat)</li> <li>• Three-Dimensional Shape (Solid)</li> <li>• Circle</li> <li>• Triangle</li> <li>• Side</li> <li>• Vertex</li> <li>• Vertices (corner)</li> <li>• Rectangle</li> </ul>	<p>Topic 11 assessment Topic 1-11benchmark assessment</p>

	<ul style="list-style-type: none"> <li>and other rectangles</li> <li>• Describe and identify hexagons</li> <li>• Describe and identify solid figures</li> <li>• Describe shapes in the environment</li> <li>• Describe positions of shapes in the environment</li> </ul>		<ul style="list-style-type: none"> <li>• Square</li> <li>• Hexagon</li> <li>• Cube</li> <li>• Cylinder</li> <li>• Cone</li> <li>• Sphere</li> <li>• Infront of</li> <li>• Behind</li> <li>• Next to</li> <li>• Above</li> <li>• Below</li> </ul>	
<p>May 5/6-5/15 Topic 13 Analyze, Compare and create shapes. Lesson 1-7 Review and assessment</p> <p>5/16- 5/17 Patterns NY State Extension</p> <p>5/20-5/28 Topic 14 Describe and compare Measurable Attributes Lesson 1-6 Review and assessment</p> <p>Money 5/29-6/4 NY State Extension</p>	<p>Topic 13</p> <ul style="list-style-type: none"> <li>• Analyze and compare 2-D shapes</li> <li>• Analyze and compare 3-D shapes</li> <li>• Analyze and compare 2-D and 3-D shapes</li> <li>• Make sense of problems about shapes</li> <li>• Make 2-D shapes using other 2-D shapes</li> <li>• Build 2-D shapes that match given attributes</li> <li>• Use materials to build 3-D shapes</li> </ul> <p>Patterns</p> <ul style="list-style-type: none"> <li>• Use patterns to find the next object in a line</li> <li>• Duplicate and extend pattern</li> </ul> <p>Topic 14</p>	<p>Topic 13</p> <ul style="list-style-type: none"> <li>• 3D Shapes</li> <li>• Real life objects</li> <li>• Crayons</li> <li>• Attribute blocks</li> <li>• Construction paper</li> <li>• Pattern block</li> <li>• Yarn</li> <li>• String</li> <li>• Pipe cleaners</li> <li>• Straws</li> <li>• Scissors</li> <li>• Tape</li> <li>• Small cubes</li> <li>• Clay</li> <li>• Craft sticks</li> <li>• Paper</li> </ul> <p>Patterns</p> <ul style="list-style-type: none"> <li>• Counting bears</li> <li>• Links</li> <li>• Shape cards</li> </ul> <p>Topic 14</p> <ul style="list-style-type: none"> <li>• Connecting cubes</li> <li>• Cube trains</li> <li>• Different size paper cups</li> </ul>	<p>Topic 13</p> <ul style="list-style-type: none"> <li>• Roll</li> <li>• Stack</li> <li>• Slide</li> <li>• Flat surface</li> </ul> <p>Patterns</p> <ul style="list-style-type: none"> <li>• Repeat</li> </ul> <p>Topic 14</p> <ul style="list-style-type: none"> <li>• Height</li> <li>• Length</li> <li>• Longer</li> <li>• Shorter</li> <li>• Taller</li> <li>• Capacity</li> <li>• Heavier</li> <li>• Lighter</li> <li>• Weighs</li> <li>• Weight</li> <li>• Balance scale</li> <li>• Attribute</li> </ul>	<p>Topic 12 assessment Topic 13 assessment Topic 14 Assessment</p>

	<ul style="list-style-type: none"> <li>• Describe and compare objects by length and height</li> <li>• Describe and compare objects by capacity</li> <li>• Describe and compare objects by weight</li> <li>• Use measurable attributes to describe different objects</li> <li>• Use small objects to measure length</li> <li>• Solve math problems about objects with measurable attributes by using precision</li> </ul>	<ul style="list-style-type: none"> <li>• Glue</li> <li>• Balance scale</li> <li>• Books</li> </ul>		
<p>June Time &amp; Money 5/29-6/11 NY State Extension</p>	<p>Time &amp; Money</p> <ul style="list-style-type: none"> <li>• Explore Coins (pennies, nickels, dimes, quarters)</li> <li>• Identify pennies nickels, dimes, and quarters.</li> <li>• Represent addition and subtraction with pennies</li> </ul>	<p>Time &amp; Money</p> <ul style="list-style-type: none"> <li>• Clocks</li> <li>• Coins</li> </ul>	<p>Time &amp; Money</p> <ul style="list-style-type: none"> <li>• Penny</li> <li>• Nickel</li> <li>• Dime</li> <li>• Quarter</li> <li>• Value</li> <li>• Cent (+symbol)</li> <li>• Clock</li> <li>• Hour (hand)</li> <li>• Minute (hand)</li> </ul>	<p>End of year Benchmark</p>

Other classroom applications for formative assessment would be using an exit ticket, teacher-guided questions, think-pair-share, and direct observation.

