

### **Course Description:**

During the first semester students will learn foundational math facts. They will learn to count to 12, how to compare sizes, ordinal numbers putting items in order, what a number line is and its uses, basic measurements such as inches and feet, and how to tell time on digital and analog clocks.

Students will have many opportunities to practice these new concepts by interacting with online confirmation exercises and filling out worksheets off line.

A special emphasis this semester is for students to have fun with numbers, finding success with concepts such as bigger and smaller and being comfortable in an online environment.

### **Major Concepts:**

- Position words
- Comparing sizes
- Shapes
- Counting to ten
- Patterns
- Basic measures
- Number line
- Telling time
- Ordinals – first through seventh
- Basic addition

Module	Lesson Title	Objectives
1	Days of the Week	<ul style="list-style-type: none"> <li>Recognize time words: morning, afternoon, evening, and night.</li> <li>Name the days of the week in order.</li> </ul>
	Position Words	<ul style="list-style-type: none"> <li>Recognize and use position words: above, below, beside, in front of, behind, next to, left, and right.</li> <li>Recognize objects in their environment based on location.</li> </ul>
2	Compare Sizes	<ul style="list-style-type: none"> <li>Compare two items to determine longer or shorter.</li> <li>Compare two items to determine taller or shorter.</li> <li>Compare two items to determine if they are light or heavy.</li> <li>Compare two items to determine if they are wider or narrower.</li> <li>Identify which of 3 items is different from others in set.</li> </ul>
	Sets	<ul style="list-style-type: none"> <li>Identify which of 3 items is different from others in set.</li> </ul>
3	Count and Write to 3	<ul style="list-style-type: none"> <li>Write and say the numbers 1-3 in order.</li> </ul>
	The Shape of It	<ul style="list-style-type: none"> <li>Describe and identify basic (2D) shapes (circle, rectangle, square, and triangle).</li> </ul>
	Shapes and Their Position	<ul style="list-style-type: none"> <li>Describe objects in the environment using names of shapes and their relative positions, using the terms above, below, beside, in front of, behind, and next to.</li> </ul>
4	Patterns	<ul style="list-style-type: none"> <li>Copy a pattern.</li> <li>Sort objects based on size.</li> </ul>

Module	Lesson Title	Objectives
	Find the Fake	<ul style="list-style-type: none"><li>Identify which of 3 items is unique.</li></ul>
	Use Your Fingers to Count to 5	<ul style="list-style-type: none"><li>Count and show numbers 0-5 with fingers.</li></ul>
5	Circle and Count to 5	<ul style="list-style-type: none"><li>Circle 1 to 5 items in a set. (Understand that the last number name said tells the number of objects counted.)</li></ul>
	Sorting and Grouping	<ul style="list-style-type: none"><li>Compare two objects with a measurable attribute in common.</li><li>Classify by color and size.</li></ul>
	Biggest Set	<ul style="list-style-type: none"><li>Identify a set with the most items by using matching and counting strategies.</li></ul>
6	Basic Measures	<ul style="list-style-type: none"><li>Describe measurable attributes of objects, such as length, width, and height.</li><li>Measure length in inches.</li></ul>
	Sort and Classify	<ul style="list-style-type: none"><li>Classify, sort, and count objects up to 5.</li><li>Circle an object that does not belong in a set.</li></ul>
7	Which is Different?	<ul style="list-style-type: none"><li>Circle any item that is different.</li><li>Compare objects with a measurable attribute in common.</li></ul>
	Count from 0 to 3	<ul style="list-style-type: none"><li>Write the numbers 0 to 3.</li><li>Count the numbers 0 to 3 out loud.</li></ul>
	Smallest or Biggest	<ul style="list-style-type: none"><li>Position objects in order from smallest to largest.</li></ul>

Module	Lesson Title	Objectives
8	Position Words: Before and After	<ul style="list-style-type: none"> <li>Match numerals 0 to 5 with pictures of 0 to 5 objects.</li> <li>Say the number names in order, and pair each object with one number name.</li> <li>Insert position words (before, after, in front, behind) into stories.</li> </ul>
	The Number Six	<ul style="list-style-type: none"> <li>Write the number 6.</li> <li>Count to 6.</li> <li>Finger-paint numbers 1 to 6.</li> </ul>
	Matching Sets	<ul style="list-style-type: none"> <li>Match a set of objects to a set with an equal number of objects.</li> <li>Draw the same number of objects as members in a given set.</li> </ul>
9	Picture Graphs	<ul style="list-style-type: none"> <li>Create picture graphs.</li> </ul>
	Hopscotch to Six!	<ul style="list-style-type: none"> <li>Find a path counting up from 1 to 6.</li> </ul>
	Count to Seven!	<ul style="list-style-type: none"> <li>Write the number 7.</li> <li>Count to 7.</li> <li>Classify, sort, and count pictures.</li> </ul>
10	Capacity	<ul style="list-style-type: none"> <li>Fill larger containers using smaller containers of various sizes.</li> <li>Match numerals 0 through 7 with pictures of 0 through 7 objects.</li> </ul>
	Ordinal Numbers 1 - 5	<ul style="list-style-type: none"> <li>Create and interact with a number line.</li> </ul>
	Count to 8!	<ul style="list-style-type: none"> <li>Write the number 8.</li> <li>Count to 8.</li> </ul>

Module	Lesson Title	Objectives
11	Less and More	<ul style="list-style-type: none"><li>Compare two objects with a measurable attribute in common to see which object has more or less of the attribute.</li></ul>
	Count to 9!	<ul style="list-style-type: none"><li>Write the number 9.</li><li>Count to 9.</li></ul>
	More or Fewer	<ul style="list-style-type: none"><li>Select an item that best fits with a given set.</li><li>Select a set with more or fewer items.</li><li>Count the items in each category and sort the categories by count.</li></ul>
12	Most or Fewest	<ul style="list-style-type: none"><li>Select a set with the most or fewest items.</li><li>Count the items in each category and sort the categories by count.</li></ul>
	The Number Ten	<ul style="list-style-type: none"><li>Write the number 10.</li><li>Count to 10.</li></ul>
	The Number Line	<ul style="list-style-type: none"><li>Create and interact with a number line.</li></ul>
13	Before, After, Between	<ul style="list-style-type: none"><li>Use a number line for before, after, and between.</li><li>Circle a group of items that is larger than another group.</li></ul>
	Dare to Compare	<ul style="list-style-type: none"><li>Identify whether the number of objects in one group is greater than, less than, or equal to the number in another group.</li></ul>
	The Number Eleven	<ul style="list-style-type: none"><li>Write the number 11.</li><li>Count to 11.</li></ul>

Module	Lesson Title	Objectives
14	The Penny	<ul style="list-style-type: none"><li>Count pennies.</li><li>Explain what pennies are.</li><li>Use the cents symbol.</li></ul>
	Sorting in Sets	<ul style="list-style-type: none"><li>Circle an item that shares the characteristics of a given set.</li></ul>
	The Nickel	<ul style="list-style-type: none"><li>Recognize and add nickels.</li></ul>
15	Adding by One	<ul style="list-style-type: none"><li>Calculate the total when 1 is added to a given set.</li></ul>
	The Ten Frame	<ul style="list-style-type: none"><li>Use a ten frame.</li></ul>
	Picture Patterns	<ul style="list-style-type: none"><li>Copy a pattern of pictures.</li></ul>
16	Measuring Time	<ul style="list-style-type: none"><li>Keep track of time on a clock and a calendar.</li></ul>
	First, Next, Last	<ul style="list-style-type: none"><li>Put things in order and use position words (first, next, last).</li></ul>
	Fewer or More	<ul style="list-style-type: none"><li>Identify a set with equal, some, many, few, more, and less.</li><li>Classify pairs as same or different.</li></ul>

Module	Lesson Title	Objectives
17	The Hour	<ul style="list-style-type: none"><li>Tell time on the hour using an analog clock.</li></ul>
	Fluency with Numbers	<ul style="list-style-type: none"><li>Use ten frames to gain fluency in numbers 0 to 10.</li></ul>
	The Number 12	<ul style="list-style-type: none"><li>Write the number 12.</li><li>Count to 12.</li></ul>
18	Add to 6	<ul style="list-style-type: none"><li>Combine two groups to total 6.</li></ul>
	Let's Make Ten!	<ul style="list-style-type: none"><li>Find the number that makes 10 when added to the given number.</li></ul>
	Number Line Adding	<ul style="list-style-type: none"><li>Use a number line to add up to 10.</li></ul>