Big Idea: There are many ways to learn Math						
Content: Math		*Grade: Kindergarten*		***Unit 1 and 2** – Measurement, Partners, and Shapes and Numbers* ***Unit 1 Time Frame**: September-September 30* ***Unit 2 Time Frame:** October 1-November 2nd*		
Essential Questions	Content	Skills	Key Terms	Assessment	Text	CCCS
What is a graph? -How do we sort objects? -How do we measure things? -What patterns do we see in every day life? -What jobs require the use of math everyday? What does 2 dimensional mean?	**Core Activities:** Matching Strips, daily routines **Teaching Options:** Comparing hand and foot sizes, comparing block structures **Core Activities:** Exploring pattern blocks, daily routines **Teaching Options:** Discussing a story about patterns, reading books about patterns and quilts **Core Activities:** Counting by touch and sound, establishing daily routines **Teaching Options:** Playing simon says, making a feely box or feely bag **Core Activities:**	Students will be introduced to patterning and graphing skills. -Students will be introduced to sorting objects by attributes -Students will establish daily routines -Students will explore measurement by comparing lengths. -Students will understand the values of the numbers 0-9 and be able to rote count to 10.	Length Match Compare Bigger Smaller Longer Shorter Same length	• Quizzes • Unit Test • Interactive Assessment	Everyday Math	**K.CC.1** Count to 100 by ones and tens. **K.CC.2** Count forward beginning from a given number within the known sequence **K.CC.3** Write the numbers from 0-20. Represent a number of objects within a written numeral 0-20 **K.CC.4** Understand the relationship between numbers and quantities. **K.OA.3** Decompose numbers less than or equal to 10 **K.OA.4** For any number from 1-9, find the number that makes 10 when added to the given number

-How can you tell if something is symmetrical ? -What numbers are "teen" numbers? -Can you make up a number story?	Singing and eating down to zero, daily routines **Teaching Options:** Counting down with snacks, counting down from higher numbers, reading a counting story **Core Activities:** Exploring featured numbers, establishing daily routines **Teaching Options:** Taking apart featured numbers, playing match up, reading counting books **Core Activities:** Sorting by attributes **Teaching Options:** Singing about attributes, sorting nature collections **Core Activities:** Experimenting with volume, getting to know number 3 **Teaching Options:** Estimating container capacity **Core Activities:** Graphing birthdays and ages, getting to know number 4 **Teaching Options:**	Students will be able to sort objects by attributes, and count the numbers 0-10. Students will know how to read a simple bar graph, and will be able to compare objects based on their height, weight, and volume. Students will create a bar graph of their birthdays as a class and each interpret the graph through a class discussion. Students will create colorful patterns on paper to be displayed in the classroom. Students will explore 2 dimensional shapes -Students will be introduced to symmetry -Students will develop an				**K.MD.1** Describe measurable attributes of objects, such as length or weight **K.MD.2** Directly compare two objects with a measurable attribute in common. **MD.3** Classify objects into given categories **K.G.1** describe objects in the environment using names of shapes **K.G.2** Correctly name shapes regardless of orientation and size **K.G.4** Analyze and compare two and three dimensional objects **K.G.5** Model shapes in the world by building shapes from components **K.G.6** Compose simple shapes to form larger shapes. **K.CC.1** Count to 100 by ones and tens. **K.CC.2** Count forward beginning from a given number

	Representing the earths revolution **Core Activities:** Discovering patterns, getting to know number 5 **Teaching Options:** Singing a patterned song **Core Activities:** Creating and extending patterns, getting to know number 6 **Teaching Options:** Creating patterns with natural objects **Core Activities:** Sorting coins into "Banks", getting to know number 7 **Teaching Options:** Using coins in a feely box or feely bag, playing with money and banks **Core Activities:** Playing the Give the Next Number, getting to know number 8 **Teaching Options:** Counting on using number cards **Core Activities:** Comparing body heights to objects,	understanding of teen numbers -Students will be introduced to number stories -students will continue to work on Students will know the names of the two dimensional shapes: circle, square, rectangle, triangle. Students will be able to determine shapes that are symmetrical. Students will know how to count through the teen numbers to 20. Students will be able to interpret bar graphs, and create patterns. Students will design pumpkins with a symmetrical design or face.				within the known sequence **K.CC.3** Write the numbers from 0-20. Represent a number of objects within a written numeral 0-20 **K.CC.4** Understand the relationship between numbers and quantities. **K.OA.3** Decompose numbers less than or equal to 10 **K.OA.**4 For any number from 1-9, find the number that makes 10 when added to the given number **K.MD.1** Describe measurable attributes of objects, such as length or weight **K.MD.2** Directly compare two objects with a measurable attribute in common. **MD.3** Classify objects into given categories **K.G.1** describe objects in the environment using names of shapes **K.G.2** Correctly

	getting to know number 9 **Teaching Options:** Discussing the terms long and short **Core Activities:** Reviewing numbers, getting to know numbers counting book **Teaching Options:** Counting beans, using ten frames **Core Activities:** Combining and creating shapes, comparing numbers **Teaching Options:** Doing pattern – block patterns, making shape pictures and puzzles <u>Unit Two</u> **Core Activities:** Exploring shapes, playing give the next number **Teaching Options:** Looking for shapes in nature, reading about shapes **Core Activities:** Identifying attributes of shapes, adding to shape collages **Teaching Options:**	Students will create and tell number stories to friends and their teacher. Students will be able write and identify all of the numbers up to 20. Students will be able to play the game "teen tangle" Students will create shape collages				name shapes regardless of orientation and size **K.G.4** Analyze and compare two and three dimensional objects **k.G.3** Identify symmetrical shapes **K.G.4** Understand that the last number tells the number of objects counted. **K.G.5** Model shapes in the world by building shapes from components **K.G.6** Compose simple shapes to form larger shapes.

	Printing or gluing shapes **Core Activities:** Completing an obstacle course, adding to shape collages **Teaching Options:** Reading direction stories, **Core Activities:** making and playing Spin a number, reviewing visual patterns **Teaching Options:** Counting on a life-size game mat, **Core Activities:** Looking for patterns, using pattern blocks **Teaching Options:** Going on a pattern hunt **Core Activities:** Playing counting games, using pattern blocks **Teaching Options:** Singing counting songs **Core Activities:** Introducing strokes with stories, getting to know numbers 1-9 **Teaching Options:**					

	Sandpaper number rubbings **Core Activities:** Playing the matching coin game, exploring ten frames **Teaching Options:** Sorting coins, making coin rubbings **Core Activities:** Building a number board, playing give the next number **Teaching Options:** Counting with concrete materials, **Core Activities:** Introduce Tricky Teens Game, Sorting Objects **Teaching Options:** Playing oral counting games with teens, playing teen tangle **Core Activities:** Counting and Moving, Playing I Spy **Teaching Options:** Sequencing Teen Cards in the Math Center, constructing teen buildings **Core Activities:** Representing Teen Numbers, Arranging Objects by Length					

	Teaching Options: Representing Teens and Ones, creating paper chains **Core Activities:** Making an estimate, arranging objects by length **Teaching Options:** Making handful estimates, comparing sizes to estimate **Core Activities:** Telling and Acting Out Number Stories, Playing counting games with teens **Teaching Options:** Drawing and writing number stories, modeling number stories **Core Activities:** Making Symmetrical paintings, combining and creating shapes **Teaching Options:** Making tri fold and symmetrical shapes **Core Activities:** Making a group symmetry collage, creating a bar graph **Teaching Options:** Finding symmetrical objects in books, sorting natural objects					

-Unit 1 Test: Thursday Sept 25

-Unit 2 Test: Wednesday October 29

(Students will be aware of topics that will be covered on the test a week in advance. Students will have 2 days to review in class)