Grade: 1	Measurement and Data-	4 Weeks		
Unit: 7	How Many? How Much? How Long?	4 Weeks		
	Progression			
K Students learned to describe measurable attributes of an object, directly compare				
two objects and classify objects into categories.				
1 st Grade Students will learn to order three objects and compare two objects				
using a third object and express the length of an object using non-				
standard units. Students will learn to tell time to the hour and half				
hour. They will also organize, represent and interpret data.				
2 nd Grade	Students will extend their knowledge in measurement by estimating and	d using		
standard units to measure. They will relate addition and subtraction to measurem				
	They will tell time to the nearest five minutes and solve problems using	money.		
	Students will also create picture and data graphs.			

STUDENT LEARNING GOALS Mathematics Standards (Appendices A & B)

<u>1.MD.C.4:</u> Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

1.MD.A.1: Order three objects by length; compare the lengths of two objects indirectly by using a third object.

1.MD.A.2: Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.

1.MD.B.3: Tell and write time in hours and half-hours using analog and digital clocks.

(Include MP1 and MP6 for all units for 2014-2015)

MP1: Make sense of problems and persevere in solving them.

MP6: Attend to Precision

Interdisciplinar	y Standards	Key Vo	cabulary
Technology Integration (Appendix C)	21 st Century Skills (Appendix D)	Analog clock Compare	Measure Minute
IS1. Information Strategies IS2. Information Use	TCS1. Use of Information TCS5. Problem Solving	Data Digital clock Half-hour Half past Hour Hour hand Length Longer Longest	Minute hand O'clock Picture graph Shorter shortest Sort Taller tallest Tally chart Tally marks Unit

Essential Questions Enduring Understandings (MI p.97) I can sort and count objects. How can we sort and count objects to compare data? How can we order objects by length and compare I can compare data. them? I can order objects by length. I can compare lengths of objects. How can we measure using non-standard units? How can we tell time to the hour and half-hour? I can measure lengths of objects. I can tell time to the hour and half-hour. Assessment Plan Summative Assessment(s)/Performance Based Assessments including 21st Century Learning Formative and Diagnostic Assessment(s) RCC Unit 7 Review, MI p.162-164 STAR Math Assessment (Spring) RCC Unit 7 Practice, PPS p.87-90 RCC Embedded Tasks and Assessments

Learning Plan Components			
Text	Text Ready Common Core Mathematics Instruction 1, 2014, Curriculum Associates, ISBN: 978-0-7609-8861-9		
Print	Ready Common Core Mathematics Teacher Resource Book 1, 2014, Curriculum Associates, ISBN: 978-0-7609-8857-2		
Electronic	www.teacher-toolbox.com www.stratfordmath.wikispaces.com www.xtramath.org		

Students will:

Week 1

- Define meaningful categories for a given set of objects and sort the objects according to the categories.
- Count to find the number of objects in each category.
- Represent categorical data using tall charts, charts with numbers, and picture graphs.
- Answer questions about data in charts and graphs.
- Compare quantities represented in charts and graphs.

Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 29 & 30:	*Bar Graph Template	MI p.138-145	*RCC Interactive
Sort and Count	*Make Your Own Bar	PPS p.80 & 81	Lesson: Picture
Compare Data	Graph	*SF R, P, E & PS 8-11	Graphs
(TRB p.226-239)		*SF R, P, E & PS 8-12	*RCC Interactive
*Engage NY Lessons		*SF R, P, E & PS 8-14	Lesson: Subtraction
		*Favorite Fruit	Concepts:
		*Students who Play	Comparison
		Piano or Violin	*Online Video: Tally
		*Trudy Turnips	Charts and Bar
		Garden	Graphs
		*Focus on the	*Online Practice: Jelly
		Question Pictograph	Bean Tree
		*Focus on the	*Online Practice: Tally
		Question Graph	Marks
		*Turn Pictures into	*Online Game: What's
		Answers	Your Favorite?
		*Make a Graph	*Online Game:
		*A Splash of Color	Pictograph Game
		*Cool Kites	*Online Pictograph
		*Engage NY 1-4	Creator

Students will:

Week 2

- Order three objects by length.
- Recognize that sometimes it is not possible to compare length directly.
- Compare two objects by comparing there lengths to a third, reference, object.
- Use logical reasoning to indirectly compare the length of objects.

Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 31 & 32:	*Scoop and Order &	MI p.146-153	*Online Game: Which
Order Objects by Length	Recording Sheet	PPS p.82 & 83	is the Longest?
Compare Lengths	*My Ribbon &	*Comparing Object	
(TRB p.240253)	Recording Sheet	Lengths	
*Engage Lessons	*Ordering Cuisenaire	*Compare and Order	
	Rods	Length	
		*Compare and Order	
		Length A	
		*Indirect Length Word	
		Problems	
		*Indirect Length Word	
		Problems A	
		(Enrichment)	
		*Order by Length	
		*Engage Lessons 1-3	

Students will:

Week 3

- Measure a length using non-standard units of measure.
- Understand that the number of iterated units from end to end is a measure.
- Iterate units with no gaps or overlaps.
- Understand that "unit" implies uniformity in length.

Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 33:	*Measure a Friend	MI p.154-157	*Online Game:
Understand Length	*Measure It	PPS p.84	Curious George How
Measurement	*Measure It with	*SF R, P, E & PS 10-1	Tall?
(TRB p.254-260)	Cubes	*Measure and Color	*Online Game:
* Engage NY Lessons		*Measure and Color A	Measurements by
		*Measure the	Units
		Buildings	*Online Game: Paper
		*Measure the Crayons	Clips
		*Measure Height	
		*Measuring with Paper	
		Clips	
		*Using Units to	
		Measure	
		*A Clean Kitchen	
		*Colorful Eggs	
		*A Busy Builder	
		*How Does Your	
		Garden Grow	
		*Butterfly	
		*Engage NY 1-3	
Students wi	:		

Week 4

- Tell time to the hour and half hour, using analog and digital clocks.
- Write the time to the hour and half hour.
- Understand that 30 minutes is the same as a half-hour.

Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 34:	*What's the Hour?-	MI p.158-161	
Tell Time	Make a Clock	PPS p.85	
(TRB p.261-267)	*What's the Minute?-	*SF R, P, E & PS 6-2	
*Engage NY Lessons	Make a Clock	*SF R, P, E & PS 6-3	
	*My Favorite Time of	*SF R, P, E & PS 6-4	
	Day	*A Busy Day	
	*Time Barrier Game	*Almost Done	
	*Pick a Clock Center	*Game Time	
		*Time to Eat	
		*Write Time	
		*Starry Night	
		*Half Past the Hour	
		*Calling All Cows	
		*Parade Time	
		*Engage NY 1-4	

Summative Assessment	Performance Task
RCC Unit 7 Review	RCC Unit 7 Practice
-MI p. 162-164	-PPS p.87-90
-Scoring Guide (TRB p. 268-269)	-Rubric (Teacher-Toolbox)