

D₃ A₁ 2

Buttoning-up Measurement

C3 ON SECT

G₂O₁A₁L₁S₁

- Understand the similarities and differences in categorical data and measurement data
- Understand the coherence in the measurement and data standards
- Understand the coherence in grade level standards
- Explore tasks that are to the rigor of the standard



Measurement and Data Sort

Sort your cards into furry animals and not furry animals

Furry

Not Furry



Categorical Data



Sort the animals into 2 categories.

Be prepared to explain your category choice.

What categories did you choose?

Sort the animals into 3 categories.

Be prepared to explain your category choice.

What categories did you choose?





Sort the animals into these categories.

Be prepared to explain your category choice.

- Mammals
- Reptiles
- Birds
- Fish
- Other





•Represents data that can be divided into groups based on attributes and qualified with a number



- We are going to answer the following questions.
- What can we use to find the length?
- How long is the _____?
- How do you know?







Let's think it through....

- Using your button- How long is the marker?
- How do you know? What steps did you use?



Measurement Data





Let's think it through....

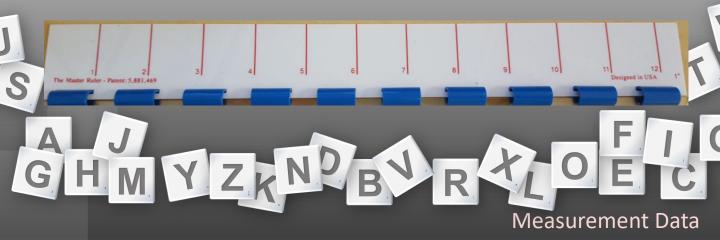
- Using your tiles- How long is the marker?
- How do you know? What steps did you use?



Measurement Data



- We are going to answer the following questions with the most precise measurements.
- What can we use to find the length?
- How long is the marker?
- How do you know?





- Using the ruler measure these items to the nearest
- Highlighter
- Glue Stick
- Tape
- Marker
- Post-it
- Scissors
- Pen





- Using the ruler measure these items to the nearest half-inch:
- Highlighter
- Glue Stick
- Tape
- Marker
- Post-it
- Scissors
- Pen





- Using the ruler measure these items to the nearest quarter-inch:
- Highlighter
- Glue Stick
- Tape
- Marker
- Post-it
- Scissors
- Pen



Measurement Data

- Represents data that can be divided into groups based on attributes and qualified with a number
- Measurement data has a numerical value based on quantitative data that can be placed on a number line

Qualitative

Quantitative





Using the quarter- inch measurements:

- Measure the button and as a table decide on the measure of the button.
- Remember to measure the buttons at the widest part of the button.
- Record each button's measure.
- Create a line plot based.



Answer the questions below based on the line plot created:

- What is the measure of the largest button?
- What is the measure of the smallest button?
- What is the difference in the length of the largest and smallest buttons?
- What is the total length of all of the buttons on your line plot?
- How do you know that this is the total?
- What is the total of all buttons measuring more than $\frac{3}{4}$ of an inch?
- If two buttons measuring $\frac{5}{4}$ of an inch are added to your line plot, what is the new total of your line plot?





Literary Connections

https://illuminations.nctm.org/lesson.aspx?id=843

How Big is a Foot by Rolf Mylier

Grades K-3

https://www.wccusd.net/cms/lib/CA01001466/Centricity/domain/60/lesso

ns/grade%202%20lessons/MeasurementInPrimaryGrades.pdf

Twelve Snails to One Lizard by Susan Hightower

Grades K-2

http://illuminations.nctm.org/Lesson.aspx?id=1933

Jim and the Beanstalk by Raymond Briggs

Grade 3



Elementary Resources for Standards Based Instruction

https://printable-ruler.net/elementary-rulers/

Printable Rulers with various increments

http://www.eaieducation.com/Product/520567/The Master%c2%ae Ruler Standard.aspx

Single original Master Ruler

http://www.eaieducation.com/Product/531150/The Master%c2%ae Ruler Kits Standard

(Original) Kit.aspx

Class set original Master Ruler

http://www.eaieducation.com/Product/520561/The Master%c2%ae Fraction Ruler.aspx

Single fraction Master Rule

http://www.eaicducation.com/Product/520562/The_Macter%c2%ae_Fraction_Ruler_

Class Set of 25.asp.

Class set fraction Master Ruler





- Take 1 minute and think about all the information we have learned this afternoon
- Take another minute and jot down some notes.
- Discuss with your neighbor the 3 things that you learned this afternoon

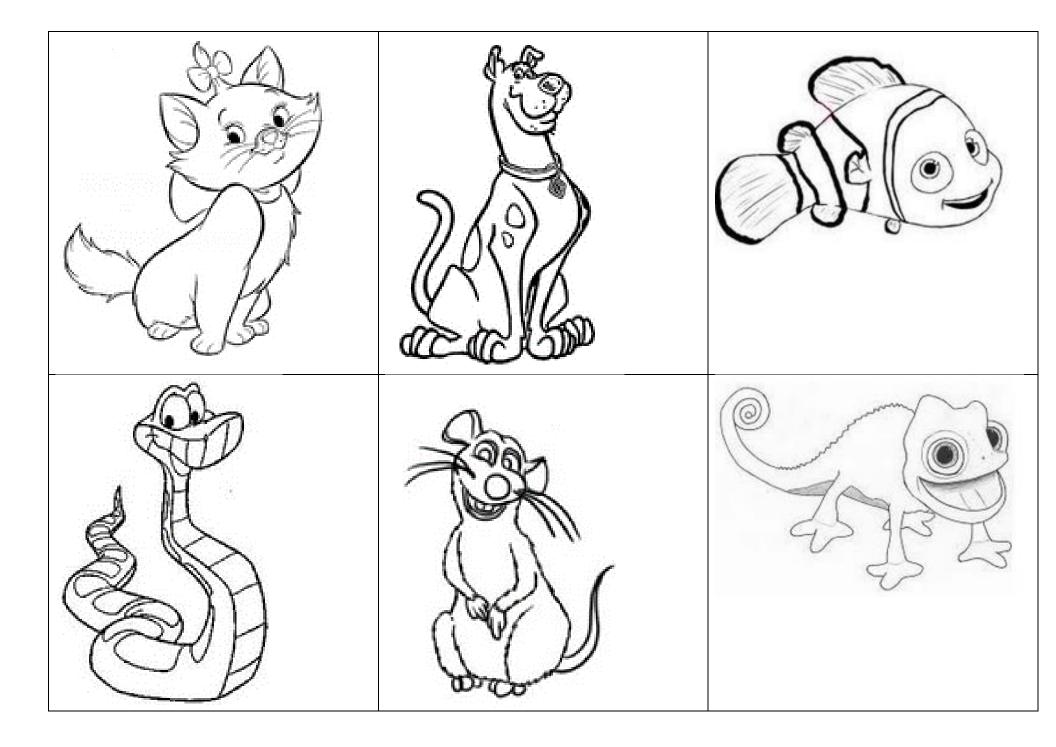


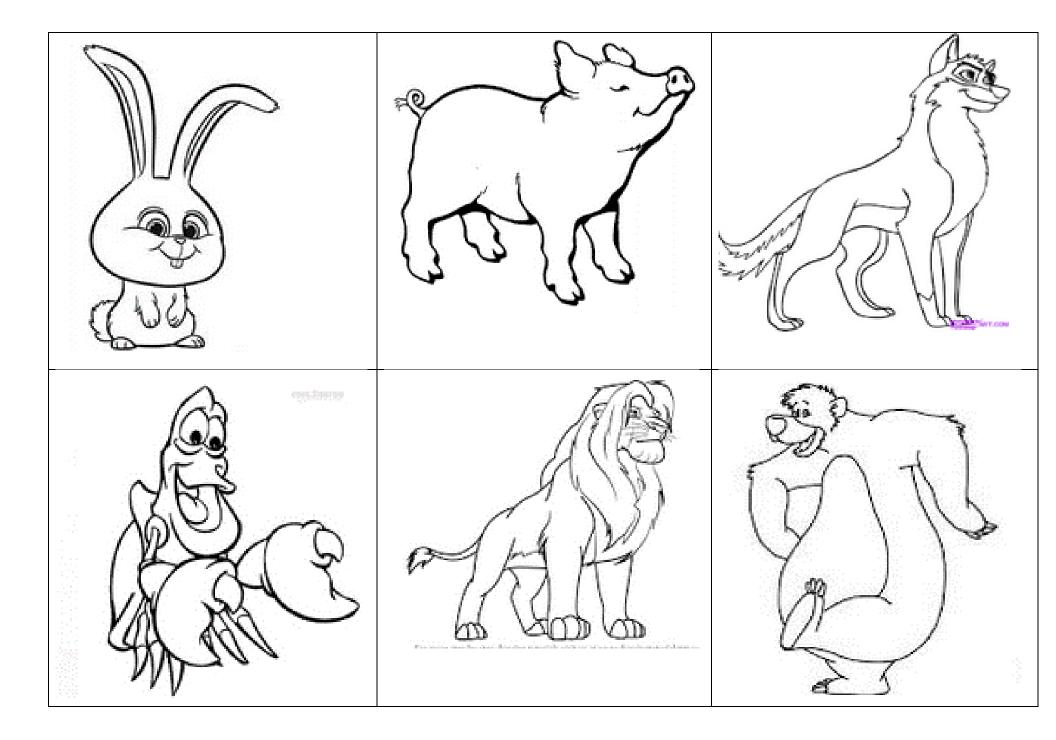


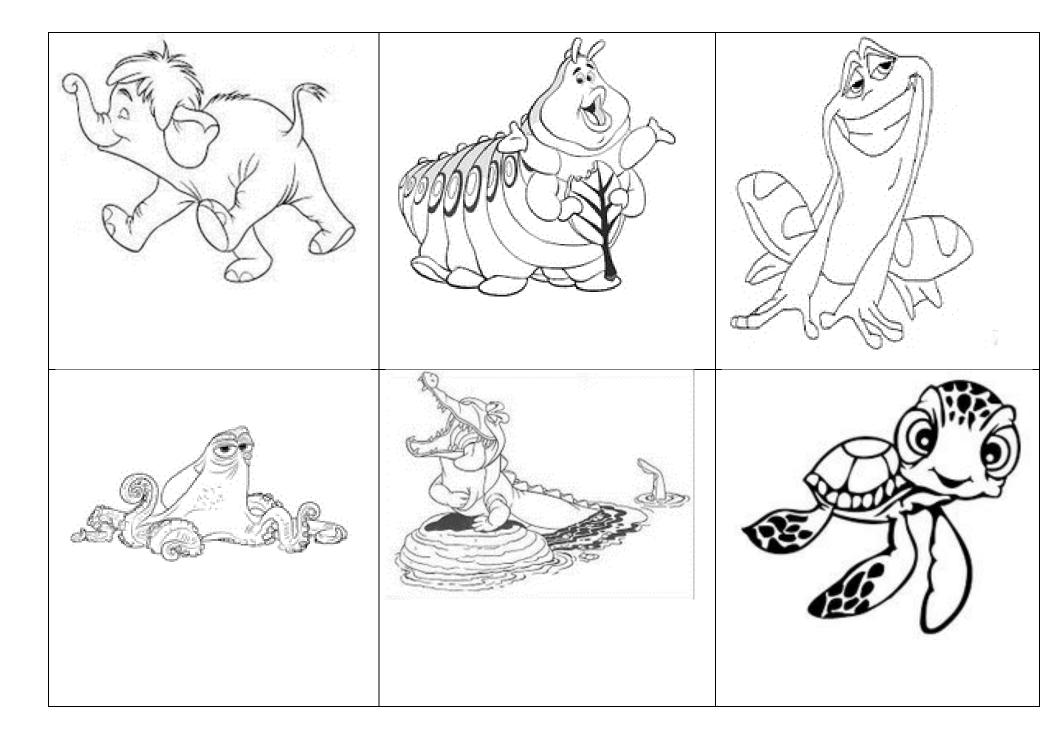
- Christina Worley- K-6 Mathematics Curriculum christina.worley@stlucieschools.org
- Elizabeth Pruitt- Curriculum Coordinator elizabeth pruitt@stlucieschools.org

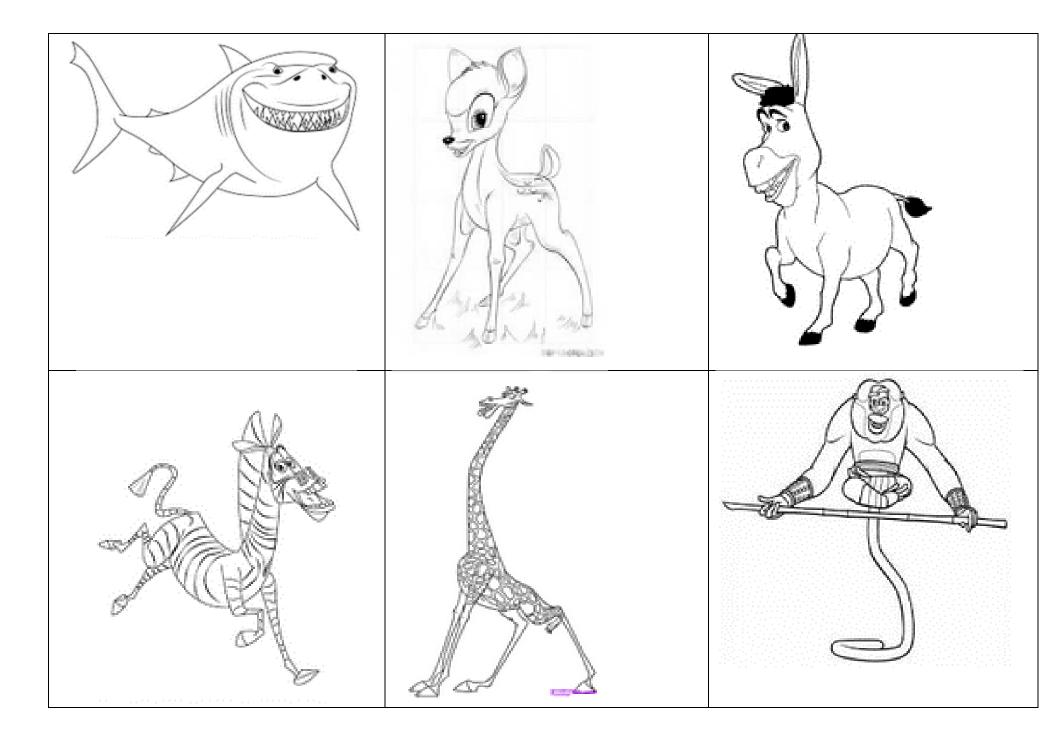


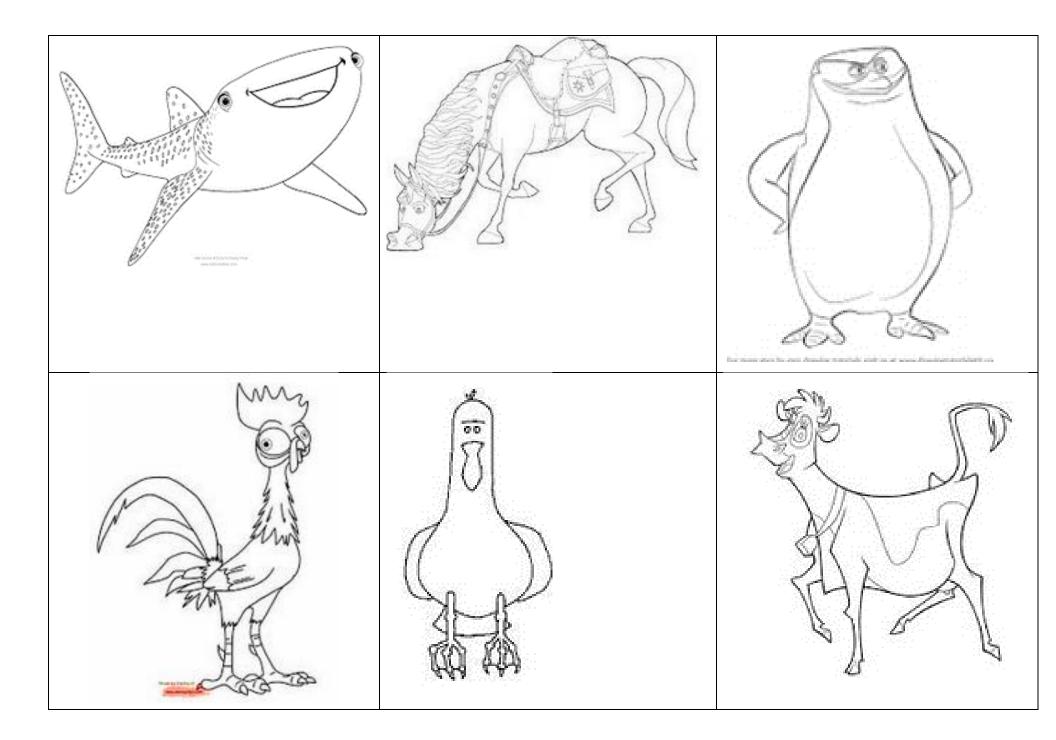








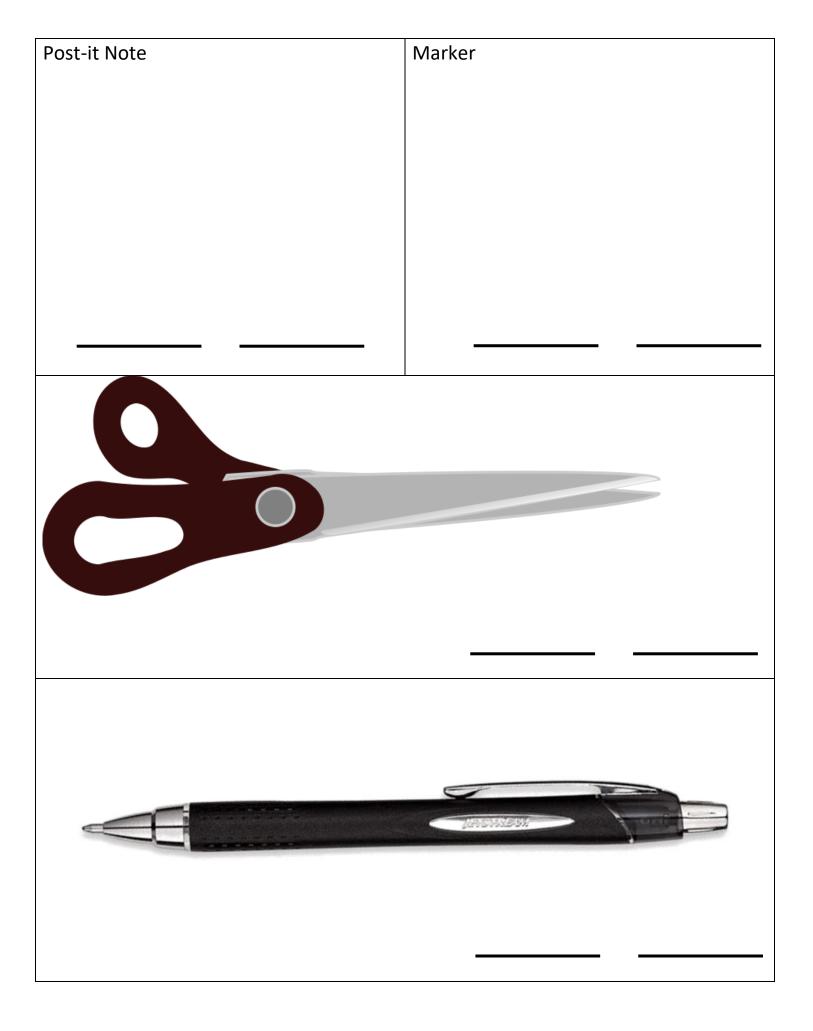


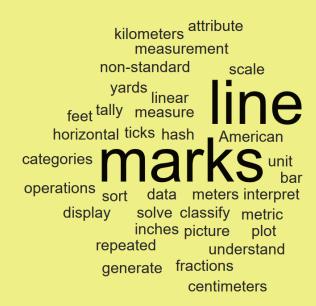












Buttoning-up Measurement in Kindergarten through Third Grade

Christina Worley K-6 Math Curriculum Supervisor

Christina.worley@stlucieschools.org

Elizabeth Pruitt Curriculum Coordinator

Elizabeth.Pruitt@stlucieachools.org



Measurement and Data: Data and Line Plots			
What do you think of when you think of Data?			
What do you think of when you think of Line Plots?			
Categorical Data	Measurement Data		
Types of Graphs:	Types of Graphs:		



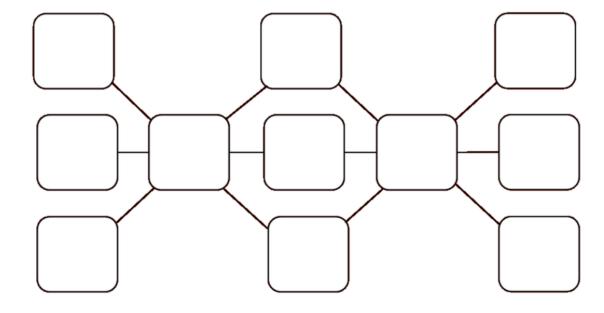
Sorting into 2 categories:

- What do students need to know to "sort" into 2 categories?
- What kind of questions could be asked of students when sorting items into 2 categories?
- Could the categories be compared? If so how?

Sorting into 3 categories:

- What do students need to know to "sort" into 3 categories?
- What kind of questions could be asked of students when sorting items into 3 categories?
- Could the categories be compared? If so how?

How are sorting into 2 and 3 categories different? How are they alike?





Boyond Sorting:
Beyond Sorting:
Create a graph to show the data-
What questions could be asked about the data?
·
Do those guestions differ from the guestions on the provisions page? If as here?
Do these questions differ from the questions on the previous page? If so how?



Measuring the Marker:
Length in button units:
Partners length in button units:
 If you are measuring the same marker, how can the marker measure two different lengths?
in you are incused ing the came marrier, now can the marrier measure the americing the
Langth in color tile unite:
Length in color tile units:
Danka and Lamadh in a classification
Partners length in color tile units:
Are the measurements the same? Why or why not?
Langth of the marker in whole inches:
Length of the marker in whole inches:
Partners length in whole inches:
Are the measurements the same? Why or why not?
What do you notice about the measurements of the marker?
What do you house about the modest ements of the marker.
Notes:



gg	earest inch:
Item	Length
Highlighter	
Glue stick	
Tape	
Marker	
Post-it (large)	
Scissors	
Pen	
Measure the following items to the ne	
Item	Length
Highlighter	
Glue stick	
Lana	
Tape	
Marker	
Marker Post-it (large)	
Marker	
Marker Post-it (large) Scissors Pen Compare your measurements to part	
Marker Post-it (large) Scissors Pen	
Marker Post-it (large) Scissors Pen Compare your measurements to part Measure the following items to the ne	
Marker Post-it (large) Scissors Pen Compare your measurements to part	earest quarter-inch:

Item	Length
Highlighter	
Glue stick	
Tape	
Marker	
Post-it (large)	
Scissors	
Pen	

Compare your measurements to partners are they the same? different?



Create a line plot to reflect the measurement data:	
	>
Create a line plot to reflect the measurement data:	
	>
Create a line plot to reflect the measurement data:	
er cate a mile plet to remedit the measurement data.	
	>



How are the line plots the same? How are they different?
•
Why did we remeasure the same items for each line plot?
willy and the remodelline and remote recent the process
What kind of questions could be asked about the line plots?
What kind of questions could be asked about the line plots:
Noticings?
Wonderings?



Questions to be answered based on your line plot: What is the measure of the largest button? What is the measure of the smallest button? What is the difference in the length of the largest and smallest buttons? What is the total length of all of the buttons on your line plot? How do you know that this is the total? What is the total of all buttons measuring more than $\frac{3}{4}$ of an inch? If two buttons measuring $\frac{5}{4}$ of an inch are added to your line plot, what is the new total of your line plot? **Literary Resources: How Big is a Foot?** By Rolf Mylier

• Twelve Snails to One Lizard by Susan Hightower

Jim and the Beanstalk by Raymond Briggs

Notes:	





Standards	K-3 Categorical Data	Coherence in Standards
CCSS.K.MD.3	Classify objects into given categories, count the	K.CC.4: Understand the relationship between numbers
	number of objects in each category and sort ¹ the	and quantities; counting to cardinality
	categories by count. Limit category counts to be less than or equal to 10.	K.CC.5: Counting items in an array, circle, line or
	Limit category counts to be tess than or equal to 10.	K.CC.6: Identify whether a group of objects has a value
		greater than, less than or equal to
CCSS.1.MD.4	Organize, represent, and interpret data with up to	1.0A.1: Use addition and subtraction within 20 to solve
	three categories; ask and answer questions about the	word problems
	total number of data points, how many in each category, and how many more or less are in one	1.OA.2: Solve word problems that call for addition of three whole numbers whose sum is less than or equal to
	category than in another.	20
CCSS.2.MD.10	Draw a picture graph and a bar graph (with single-unit	2.OA.1: Use addition and subtraction within 100 to solve
	scale) to represent a data set with up to four	one- and two- step word problems
	categories. Solve simple put-together, take-apart, and	2.NBT.5: Fluently add & subtract within 100 using
	compare problems using information presented in a bar graph.	strategies 2.NBT.6: Add up-to 4 two-digit numbers using strategies
CCSS.3.MD.3	Draw a scaled picture graph and a scaled bar graph to	3.OA.3: Use multiplication and division within 100 to
CCbb.3.MD.3	represent a data set with several categories. Solve one-	solve word problems in situations using models and
	and two-step "how many more" and "how many less"	strategies
	problems using information presented in scaled bar	3.OA.8: Solve one- and two- step word problems using
	graphs.	the 4 operations.
	For example, draw a bar graph in which each square in the bar graph might represent 5 pets.	3.G.1: Understand that shapes in different categories may share attributes & shared attributes define a larger
		category.
Standards	K- 5 Measurement Data	Coherence in Standards
MAFS.K.MD.1.a	Express the length of an object as a whole number of	K.MD.1: Describe measurable attributes of objects
	length units, by laying multiple copies of a shorter	(length/ weight) & describe several measurable attributes
	object end to end; understand that the length measurement of an object is the number of same-size	K.MD.2: Directly compare two objects with a measurable attribute in common to see which has more or
	length units that span it with no gaps or overlaps.	less of an attribute
	2S	
MAFS.1.MD.1.a	Understand how to use a ruler to measure to the	1.MD.1: Order objects by length; compare two lengths
GGGG A 1 FD A	nearest inch.	indirectly by using a third object
CCSS.2.MD.9	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making	2.MD.6 : Represent whole numbers as lengths from 0 to a number on a line diagram with equally spaced points
	repeated measurements of the same object. Show the	corresponding to whole numbers and represent whole
	measurements by making a line plot, where the	number sums and differences.
	horizontal scale is marked off in whole-number units.	
CCSS.3.MD.4	Generate measurement data by measuring lengths	3.NF.2: Understand a fraction as a number on a number
	using rulers marked with halves and fourths of an	line; represent fractions on a number line diagram.
	inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units—	
	whole numbers, halves, or quarters.	
CCSS.4.MD.4	Make a line plot to display a data set of measurements	4.NF.3: Understand a fraction $\frac{a}{b}$ with $a > 1$ as a sum of $\frac{1}{b}$.
	in fractions of a unit $(\frac{1}{2}, \frac{1}{4}, \frac{1}{8})$. Solve problems	4.NF.4: Apply & extend previous understandings of
	involving addition and subtraction of fractions by	multiplication to multiply a fraction by a whole number.
	using information presented in line plots.	
	For example, from a line plot find and interpret the difference in length between the longest and shortest	
	specimens in an insect collection.	
CCSS.5.MD.2	Make a line plot to display a data set of	5.NF.1/ 5.NF.2: Add & Subtract fractions with unlike
	measurements in fractions of a unit $(\frac{1}{2}, \frac{1}{4}, \frac{1}{8})$. se	denominators using equivalent fraction models &
	operations on fractions for this grade to solve	strategies with & without real-world context (within the same whole)
	problems involving information presented in line	5.NF.4 / 5.NF.6: Multiply fractions by fractions using
	plots.	strategies & models with & without real-world context
	For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker	5.NF.7: Extend understanding of division to divide
	would contain if the total amount in all the beakers were	fractions by whole numbers & vice versa using models &
	redistributed equally.	strategies



Standards	K-3 Categorical Data	Coherence in Standards
CCSS.K.MD.3	Each student will complete the task.	K.CC.4
	1) Sort the objects into groups containing like objects.	K.CC.5
		K.CC.6
	Aa	
	2) After the items are sorted ask the following questions:	
	Which group has more items? How did you know that? Which group has more items? How did you know that?	
	 Which group has less items? How did you know that? Did the groups have the same number objects? How did you know whether or not 	
	they did?	
	http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/36699	
CCSS.1.MD.4	Give students a worksheet with the data below.	1.OA.1
	Ten students were asked which of the following fruits is your favorite: banana,	1.OA.2
	apple or grapes?	
	Abby - banana Kim- grapes	
	Terry- grapes Dana- apple	
	Bob- banana Kevin- apple Glenn- apple Steve- banana	
	Barb- grapes Paul- banana	
	Buto grapes Laur bunana	
	Organize the data to answer the questions below.	
	1) Which fruit was chosen the most?	
	2) How many more people chose bananas than grapes?	
	http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/36711	
CCSS.2.MD.4.10	Kyle surveyed his second-grade class to find the sport that they enjoy. The data is	2.OA.1.1
	shown in the picture graph below.	2.NBT.2.5
	Sport Number of Votes Baseball © © © ©	2.NBT.2.6
	Baseball ©©©© Basketball ©©©	
	Football ©©©©©	
	Soccer ©©©©©©	
	Answer the questions about the information from the graph.	
	1) How many students enjoy football and soccer combined? How do you know?	
	2) How many more students enjoy soccer than basketball? How do you know?	
	http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/42691	
GGGG AT 57 A		2012
CCSS.3.MD.3	Create a bar graph with the following data taken when surveying 3 rd grade students. Favorite Star Wars Character Number of Votes	3.OA.3 3.OA.8
	Rey 26	3.G.1
	Han Solo 14	3.6.1
	Chewbacca 17	
	Yoda 25	
	Darth Vader 19	
	BB8 8	
	12	
	1) Students will need to decide on the "best fit" scale for the bar graph and	
	explain their thinking.	
	2) They will need to answer the following questions.	
	• What is the total number of students that were surveyed in 3 rd grade?	

110610331011310112		PUBLIC SCHOOLS
Standards	 Which two characters were the most popular characters? What is the difference in the number of votes that they received? What is the difference in the number of votes that Rey received and the number of votes that Chewbacca and Han Solo received? How many more votes did Yoda and Darth Vader receive than Finn? How many total votes did the newer characters of Rey, Finn and BB8 receive? Students should write their own question about the data. They should write a question that is two-step. http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/44776 	
Standards	3- 5 Measurement Data	Coherence in Standards
CCSS.K.MD.1.a	Students will measure a pencil using snap cubes. The teacher will give the students a pencil (of their choice) and a basket of snap cubes. The teacher asks, "what is the length of the pencil in snap cubes?" The student should be able to use the snap cubes and create a "train" (a number of snap cubes) snapped together that measure the exact length of the pencil. The student will state, "the pencil is snap cubes in length." The teacher asks. "how do you know? Please explain your thinking." The student should say, "I know that the pencil is snap cubes long because I started the first snap cube at the eraser end of the pencil and snapped cubes together until I reached the full length of the pencil at the end."	K.MD.1 K.MD.2
	The teacher says, "Thank you for your answer and your thinking."	
CCSS.1.MD.1.a	 http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/36647 Understand how to use a ruler to measure to the nearest inch. The ruler that students are using should only have markings for whole units. Give students an item to measure (or an image of an item to measure.) The item must measure to the closest inch. Ask the following questions: How would you determine the length of the object? or Where would you begin in measuring the length of the car? with Where would you stop when measuring the length of the car? What tool could you use to measure the item? With the ruler in front of them ask these questions: How would you use the ruler to measure the item? Where would you start? How do you know the length of the item? What do the marks on the ruler mean? What is the length of the item? http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/122980 	1.MD.1
CCSS.2.MD.9	Give students a group of items to measure. Items should measure to the nearest whole inch (centimeter) or close to it. The ruler that students are using should only have markings for whole units. Students will need to measure the items to the nearest inch. They will measure each item 3 time. They can complete a table like the following for the 3 measures. Item	2.MD.6

CCSS.3.MD.4 Give students a group of tiems to measure: stickers, buttons, writing utensits, crackers, Legos etc.) http://www.cpalms.org/Public/Preview/Resource/Assessment/Preview/46267 Give students a group of tiems to measure. Items should measure to quarters, halves or whole units. The ruler that students are using should only have markings for the units they are using to measure. It is units are measured in halves, halves should what the ruler is marked as. • Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures? Inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. • They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ea. How doy on know that the item measures exactly or close to 2/2 inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. **The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What doy unotice about the data on the line plot? Which measurement has the most number of items? What measurements that when same number of items? What measurements are missing items on the line plot? Please remember that when students are abeliage the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing usensils, crackers, Legos, bolts, screws, gum, candy etc.) **Interview of the units they are using		ata	PUBLIC SCHOOLS
CCSS.3.MD.4 Give students a group of items to measure. Items should measure to quarters, halves or whole units. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in halves, halves should what the ruler is marked as. Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures all the measures all the students are using should only have markings for the units they are using the measure of the measurement of the item to the appropriate increment of measure. They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Which measurements that have the same number of items? Which measurements with the measurements whole have the same dominator and that fractions that are equivalent or greater than one, can'should be used. (Items that could be used to measure sickes, buttons, writing utensils, crackers, Legos, bolls, screws, gum, candy etc.). http://www.qumns.org/bublic/Preview/Resource/Assessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to a significant surface as. Students will organize their data to create a line plot. This data could be cups of sugar used per recipe por lengths of rib		•	
Since students a group of items to measure. Hems should measure to quarters, halves or whole units. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in halves, halves should what the ruler is marked as. ■ Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures ² / ₂ inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to ³ / ₂ inches? ■ After the measurements of the items are completed, the students will chart their data on a corresponding line plot. ■ The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurements has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, can'd yet.) Imply/www.epalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. ■ Students are given a data set of measurements are using should o			
halves or whole units. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in halves, halves should what the ruler is marked as. Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures \(^2\) inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \(^3\) inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurements that have the same number of items? Which measurements which have the same number of items? Which measurements should have the same dominator and that fractions that are equivalent or greater than one, can' should be used. (Items that could be used to measure. Sicks, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cquanus.org/wblic/Preview/ResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to of sugar used per recipes per lengths of ribbon for hair ties in feet. \(\) \(\frac{1}{2} \) \(\frac{1}{2} \) \(\frac{2}{2}			
for the units they are using to measure. If the units are measured in halves, halves should what the ruler is marked as. • Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures \(\frac{1}{2} \) inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. • They will record their data. They will need to make a list of items and their measurements. Given, table Jif they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \(\frac{3}{2} \) inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. † The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are labeling the number line that the measurements should have the same demonitation and that fractions that are equivalent or greater than one can should be used. (thems that could be used to measure stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Philic/Preview/besourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to hourths, fourths should what the ruller is marked as. • Students are given a data set of measurements with all measurements measured in fourths, fourths should what the ruller is marked as. • Students will organize	CCSS.3.MD.4		3.NF.2
should what the ruler is marked as. Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures \(^2\frac{1}{2}\) inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \(^2\frac{1}{2}\) inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement that he has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gun, candy etc.) Inter/www.cpalms.org/Public/Preview/Resource/Assessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \(^2\frac{1}{2}\), \(
 Students will be given a specific increment of measure to be used for the items (fourths, halves or whole units). Students may be given something that measures ²/₈ inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. They will record their data. They will need to make a list of items and their measurements. Given, table If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to ³/₂ inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can should be used. (tems that could be used to measure stickers, buttons, writing utensils, crackers, Legos, bolls, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 App. deasurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for th			
(fourths, halves or whole units). Students may be given something that measures \$\frac{7}{2}\$ inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. **They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \$\frac{3}{2}\$ inches? **Alter the measurements of the items are completed, the students will chart their data on a corresponding line plot. **The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, solts, screws, gum, candy etc.) **Legos, solts, screws, gum, candy etc.** **Students are given a data set of measurements with all measurements measuring to \$\frac{1}{4}\frac{1}{9}\times n^2\frac{1}{2}			
measures \(\frac{3}{8} \) inches and asked to measure to the nearest half or whole. This allows for students to make decisions based on their knowledge of the distance of the measurement of the item to the appropriate increment of measure. • They will record their data. They will need to make a list of items and their measurements. (It, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \(\frac{3}{2} \) inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. * The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? What do you notice about the data on the line plot? Please remember that when students are labeling the number line that the measurement should have the same denominator and that fractions that are equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4}, \frac{1}{9}, or \frac{1}{2}. \) Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. \(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2			
allows for students to make decisions based on their knowledge of the distance of the measurement of the time to the appropriate increment of measure. They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to ½ inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the has the least number of items? What measurements that have the same number of items? Are there any measurements that have the same number of items? Are there are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can'should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gun, candy etc.) Students are given a data set of measurements with all measurements measuring to $\frac{1}{4}, \frac{1}{8}, \text{ or } \frac{1}{2}$. Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. Students are given a data set of measurements with all measurements build the line plot. How did you know to label your line plot with those measurements. What do you notice about the data on the line plot? Which measurement has the most number of items? What measurements are missing i		7	
of the measurement of the item to the appropriate increment of measure. They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to $\frac{3}{2}$ inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurements when the last heast number of items? Which measurement has the has the least number of items? What neasurements that have the same number of items? What measurements has the has the least number of items? What neasurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can' should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolks, screws, gum, candy etc.) Students are given a data set of measurements with all measurements measuring to $\frac{1}{2} \cdot \frac{1}{2} \cdot $		O .	
 They will record their data. They will need to make a list of items and their measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to ½ inches? After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can's hould be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to ¼ ½ 0 or ½ 3 or ½ 2 ≤ 2 ≤ 2 ≤ 2 ≤ 2 ≤ 2 ≤ 2 ≤ 2 ≤ 2 ≤ 2			
measurements. (list, chart, table) If they are measuring items that are similar but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \$\frac{3}{2}\$ inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. • The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? Whith measurements has the has the least number of items? Whith measurements that have the same number of items? Whith measurements that have the same equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 **CCSS.4.MD.4** **Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in fect. \$\frac{1}{2} \frac{1}{2} \frac{3}{2} \frac{1}{4} \frac{2}{4} \frac{1}{4} \f			
but different lengths, they may have just a list of measurements. The teacher will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \$\frac{3}{2}\$ inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. **The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurements that have the same number of items? Are there any measurements that have the same number of items? Are there any measurements that have the same number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can't should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/Preview/ResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \$\frac{1}{4}, \frac{1}{4}, \fr			
will be monitoring by asking individual students questions about how to measure. Ex. How do you know that the item measures exactly or close to \$\frac{3}{2}\$ inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? What measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can' should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 http://www.cpalms.org/Publ			
measure. Ex. How do you know that the item measures exactly or close to \$\frac{3}{2}\$ inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? What the assurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) Students are given a data set of measurements with all measurements measuring to \$\frac{1}{4}\frac{1}{8}\frac{1}{9}\text{ or }\frac{1}{2}\text{ Measurements greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{1}{4}\frac{1}{4}\frac{2}{4}\frac{1}{4}\frac{2}{4}\frac{3}{4}\fr			
inches? • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum. candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4}, \frac{1}{9}, \text{ or } \frac{1}{2}.\text{ Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{1}{2}, \frac{1}{4}, \frac{1}{4		2	
• After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can's should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) Students are given a data set of measurements with all measurements measuring to 1, 1, 1/2, 1/2, 1/2, 1/2, 1/2, 1/2, 1/2		Z	
The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResource Assessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \$\frac{1}{4}\frac{1}{9}\times\frac{7}{2}\frac{1}{2}\times\frac{3}{2}\times\frac{1}{2}\times\frac{3}{2}\times\frac{1}{2}\times\frac{3}{2}\times\frac{3}{2}\times\frac{1}{2}\times\frac{3}			
The teacher will monitor and ask questions. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResource Assessment/Preview/45671 CCSS.4.MD.4 Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4}, \frac{1}{6}, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements hat have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4}, \frac{1}{9}, \text{ or } \frac{1}{2}. \) Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \(\frac{5}{4}, \frac{1}{4}, \frac{4}{4}, \frac{4}		their data on a corresponding line plot.	
plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements hat have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4}, \frac{1}{9}, \text{ or } \frac{1}{2}. \) Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \(\frac{5}{4}, \frac{1}{4}, \frac{4}{4}, \frac{4}			
plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements hat have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4}, \frac{1}{9}, \text{ or } \frac{1}{2}. \) Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \(\frac{5}{4}, \frac{1}{4}, \frac{4}{4}, \frac{4}			
Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) https://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \$\frac{1}{4}, \frac{1}{8}, \text{ or } \frac{1}{2}.\$ Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{1}{2}, \frac{1}{4},		The teacher will monitor and ask questions. How did you know to label your line	
has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can' should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to days one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{1}{4}, \frac{1}{4},		plot with those measurements? What do you notice about the data on the line plot?	
number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 CCSS.4.MD.4 Students are given a data set of measurements with all measurements measuring to \(\frac{1}{4\cdot^3}\frac{1}{4\cdot^3}\frac{1}{6\cdot}\frac{1}{2\cdot}\]. Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{5}{1}\frac{1}{4}\frac{3}{4}\frac{1}{4}\frac{7}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}\frac{4}{4}\frac{7}{4}\frac{4}{4}			
Please remember that when students are labeling the number line that the measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \frac{1}{4}, \frac{1}{8}, \frac{1}{9}, \frac{1}{2}.\text{ Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. \(\cdot\) \(\frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}, \frac{5}{4}, \frac{4}{4}, \frac{7}{4}, \f		· · · · · · · · · · · · · · · · · · ·	
measurements should have the same denominator and that fractions that are equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to 1/4 * 8 , or 1/2. Measurements greater than one on mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{5}{4}, \			
equivalent or greater than one, can/ should be used. (Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 CCSS.4.MD.4 Students are given a data set of measurements with all measurements measuring to 1 4.NF.3 1 1/3, or 1/2. Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • 5/1/4, 4/4, 1/4, 1/4, 1/4, 1/4, 1/4, 1/4,			
(Items that could be used to measure: stickers, buttons, writing utensils, crackers, Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \frac{1}{4}, \frac{1}{8}, or \frac{1}{2}.\text{ Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \frac{5}{4}, \frac{1}{4}, \fra			
Legos, bolts, screws, gum, candy etc.) http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \$\frac{1}{4}\darkalpha^2\$, or \$\frac{1}{2}\$. Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{1}{4}\frac{1}{			
tttp://www.cpalms.org/Public/PreviewResourceAssessment/Preview/45671 Students are given a data set of measurements with all measurements measuring to \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Students are given a data set of measurements with all measurements measuring to $\frac{1}{4}, \frac{1}{8}, \text{ or } \frac{1}{2}$. Measurements greater than one maybe written as fractions greater than one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • $\frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}, \frac{5}{4}, \frac{1}{4}, \frac{5}{4}, \frac{3}{4}$ • After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will be monitoring and asking questions as students build the line plot. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
4.NF.4	CCSS.4.MD.4		4.NF.3
one or mixed numbers. The ruler that students are using should only have markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}, \frac{1}{4}, \frac{4}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, 1	0 000011112011		
markings for the units they are using to measure. If the units are measured in fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{5}{4}, \frac{1}{4}, \f			
fourths, fourths should what the ruler is marked as. • Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. • \$\frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{5}{4}, \frac{1}{4}, \fr			
 Students will organize their data to create a line plot. This data could be cups of sugar used per recipe or lengths of ribbon for hair ties in feet. \$\frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}, \frac{5}{4}, \frac{1}{4}, \frac{3}{4}, \frac{4}{4}, \frac{3}{4}, \frac{4}{4}, \frac{4}{4}, \frac{4}{4}, \fra			
of sugar used per recipe or lengths of ribbon for hair ties in feet. o			
• After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will be monitoring and asking questions as students build the line plot. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
• After the measurements of the items are completed, the students will chart their data on a corresponding line plot. The teacher will be monitoring and asking questions as students build the line plot. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the		5 1 3 1 2 5 1 5 3	
their data on a corresponding line plot. The teacher will be monitoring and asking questions as students build the line plot. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
The teacher will be monitoring and asking questions as students build the line plot. How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the		<u> •</u>	
How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the		their data on a corresponding line plot.	
How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
How did you know to label your line plot with those measurements? What do you notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
notice about the data on the line plot? Which measurement has the most number of items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
items? Which measurement has the has the least number of items? Are there any measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
measurements that have the same number of items? What measurements are missing items on the line plot? Please remember that when students are labeling the number line that the			
missing items on the line plot? Please remember that when students are labeling the number line that the			
Please remember that when students are labeling the number line that the			
measurements should have the same denominator and that fractions that are		measurements should have the same denominator and that fractions that are	
equivalent or greater than one, can/ should be used.			
• The students will answer questions about the data based on the fraction			
standards for the grade level. What is the difference in the longest			
measurement and the shortest measurement? What is the total length of the			
items that measure? What is the total of measurements of the items			
measuring more than? What is the total length of the items measuring			



of? • Students will have decisions points in whether they are using repeated addition or multiplication when totaling a measurement. http://www.cpalms.org/Public/PreviewResourceAssessment/Preview/62833	
	1/ 5.NF.2 1/ 5.NF.6 7