

2nd Grade – CCSSM Focus: MD- Data

UNIT PLANNING TOOL

Planning Focus: Addition and Subtraction with word problems

CCSSM:

Module(s)/Unit(s) Stepping Stones Modules 6 & 9 Data

2.MD.D.10: Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

2.MD.D.9: Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.

Mathematical practices being emphasized:

Use appropriate tools strategically. (#5)

Attend to precision, (#6)

Essential Questions

How do we use a survey to collect data?

Why is it important to be able to organize and graph data?

How does a line plot help me share my data?

How can we use a picture graph, bar graph, chart, or table to organize data and answer questions?

Key Concepts

- Draw picture graphs and bar graphs that represent a data set with up to four categories
- Solve simple put-together, take-apart, and compare problems using the data presented in graph
- Generate measurement data
- Show measurements in a line plot

Visual Models/ Algorithms/ Diagrams for Compendium Tally Charter Algorithms/ Diagrams for Compendium Tally Charter Algorithms/ Diagrams for Compendium **Tally Charter Algorithms/ Diagrams for Charter Algorithms/ Diagrams for Charter Algorithms/ Diagrams for Compendium **Tally Charter Algorithms/ Diagrams for Charter Algorithms/ Diagrams fo

Pre Assessment



Write the number 7. Show me how to write 7 with tally marks.

			_	FRIST	Ar Itr	TYAN	111102					
Chorolate	P	8	8	8	8	8	8	8	8	F	8	8
Vesitia	8	8	8	8	8							
Stranderry	P	8	8	F	8	8						
Cherry	P	8	F	S	P	S	P	8	S			
			,			•		7 8		9 1	10	1



How many students voted for strawberry?



How many more students voted for cherry than vanilla?

80

How many chocolate and vanilla votes are there altogether?

Connections (Real World Applications)

Students use the gathering of data on a daily basis. Watch for examples of real problems that can be highlighted.

- o How many more boys than girls are here today?
- o How many more students like math more than science?
- o Where do we want to go on a field trip?
- o Record your scores from your pre and post test in your data journal. (student progress)
- o How did we do on our last I-ready or I-station test?
- o Any survey
- Value or cost of items

		Language Functions/S	Structures	
Functions: Explain	n. Analyze, Interpret, C	Compare.		
Structures:				
How many more	than	J State State Comment		
How much more	than	?		
The graph tells us	·			
How many fewer	than	•		
How many	and a	re there altogether?		
The and	have the s	same amount as		
	2000			
144 444 145 144 144 144 144 144 144 144		Vocabulary		
survey	bar graph	line plot	data	
tally marks	horizontal	picture graph	key	
scale	vertical	categories	altogether	

Focus and Motivation

Brain Pop Jr. — Tally Charts and Bar Graphs
Pictographs

Chants - Data Here, There (DLeNM chant bank)

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Literature – Lemonade for Sale by Stuart J. Murphy

Follow an Ice-cream Cone Around the World by Neale S. Godfrey

Talley O-Malley by Stuart J. Murphy

Activity – Any type of surveys conducted by students and the creation of graphs (real objects or pictures)

more than