20 Days of Lesson Plans and Activities

2ND grade

the MAGIC Of MAth DATA ANALYSIS

by Hope King and Amy Lemons

DATA & GRAPHS OVERVIEW

	FOCUS	STANDARD
WEEK	Bar Graphs	TEKS: 2.10ABCD CC: 2.MD.D.10
WEEK	Pictographs	TEKS: 2.10ABCD CC: 2.MD.D.10
WEEK	Line Plots, Relate to Measurement	TEKS: 2.10ABCD CC: 2.MD.D.9
WEEK	Solving Word Problems with Data and Graphs	TEKS: 2.10CD CC: 2.MD.D.10

DHLY LESSON PLANS

-20 Days of Lesson Plans for:

Week I: Bar Graphs Week 2: Pictographs (COMING SOON) Week 3: Line Plots (COMING SOON) Week 4: Word Problems (COMING SOON)

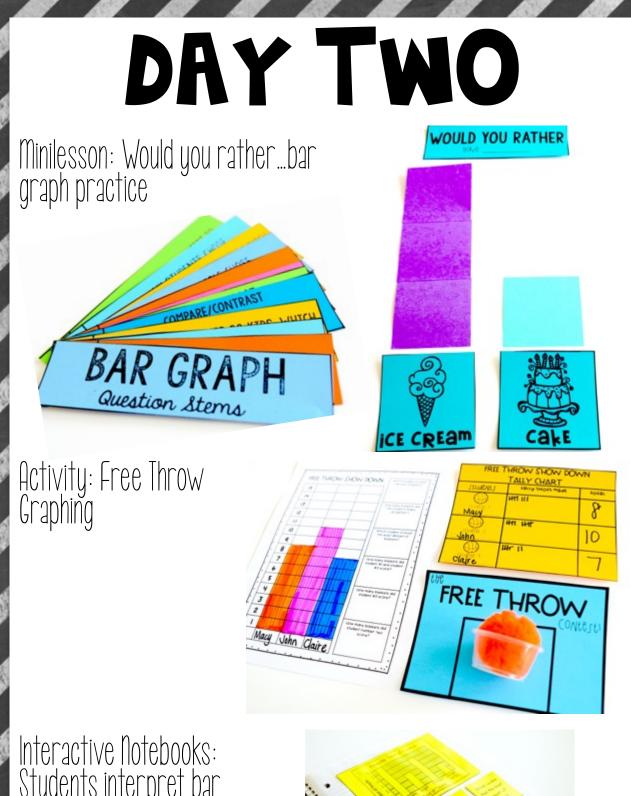
<u> </u>	>	BAR G	R (>	BAR BA	\rightarrow	APHS RÅP		
FOCUS	ga	FOCUS	OBJ	ga cri	FOCUS	OBJ	ECTIVE	M	ATERIALS
gathering data and creating bar graphs	V SURVE	gathering data and creating bar graphs c	I ca reate	V SURVE	gathering data and creating bar graphs		read and bar graphs.		Sticky Notes
SURVEY, BAR GRAPH, TITLE, DATA	Danta	DATA	WO BELS, 1	Practic You	VOCABULAR SURVEY, BAR GRAPH, TITLE DATA	, LABELS, N	UMBERS, Parada	rand Baristan Penala	ASSESSMENT
Begin by introducing a bar graph using provided Explain to students that a bar you collected data. So the rough the files at people of eventry a bar and the second state, use the second state, and the second state of the second state of the second state. The second state of the second state, the second state of the second state of the second state of the second state. The second state of the second state. The second state of the second state. The second state of the second state of the second state of the second state of the second state. The second state of the second state of the second state of the second state. The second state of the second state of the second state of the second state of the second state. The second state of the second state of the second state of the second state of the second state. The second state of the second state. The second state of the second state. The second state of the second stat	he side. introduce	BURNILESSON Autor Today, alow shuden's to stracke your for graph horizontally watter than seriodly. Autor Today, alow shuden's today without you watter to a seriod you watter. Today, "Defendent todays "Bood You Watter," Defendent todays "Bood You	the	Go 5 L Collec 2 TH 3 Ad yo 4 Ad 5 Dra 9 6 Ge Now us return to 1 graphs or wattion ster	Practice areating bar graphs using ' You Rather' Introduce today's Rather' Go through the steps of areating I. Collect Data. Give each student or alow them to write their or 2. Title: Give the title to the top on paper. 3. Add numbers: tell students that your numbers after the data is "4. Add labels: add your labels to the your othert paper. 5. Draw graph Allow students to an their study notes onto the about 6. Go back and add your numbers Now use the graphing question star interpreting the graph	today's "Would "Would You a bar graph sticky note and hoice. If your chart t you will add displayed he bottom of ome and place and and place and place and and and place and and and and and and and and and and	ACTIVIT STRIKE ZON Place the student groups 10 paper of the students will play of bowling and group data for the number knocked down each The students will se paper ougs (bowlin) The students will se paper ougs (bowlin) The students will se (the number of pr knock down). The continue until each in has bowled 5 fm Then they will compo graphe and amous guestiene.	IE: sinta e each wps: of parse is time. d up 10 g pina). bowling, t bowlis, is data a they y will res re their	ASSESSMENT Students complete the graphing quick check.



graphs



Interactive Notebooks: The students interpret bar graphs.



Students interpret bar graphs by answering questions.



DAY THREE

disney

Minilesson: Would you rather...bar graph practice. Note...make today's graph horizontal rather than vertical.

Activity: Our Favorite Di773



THE OCEAN

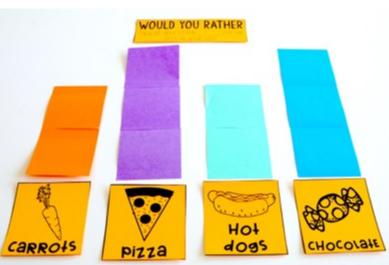
WOULD YOU RATHER

Interactive Notebooks: Students interpret a bar graph and answer questions.



DAY FOUR

Minilesson: Would you rather...bar graph practice.



Activity: Finger Twister



Interactive Notebooks: Students interpret a bar graph and answer questions.

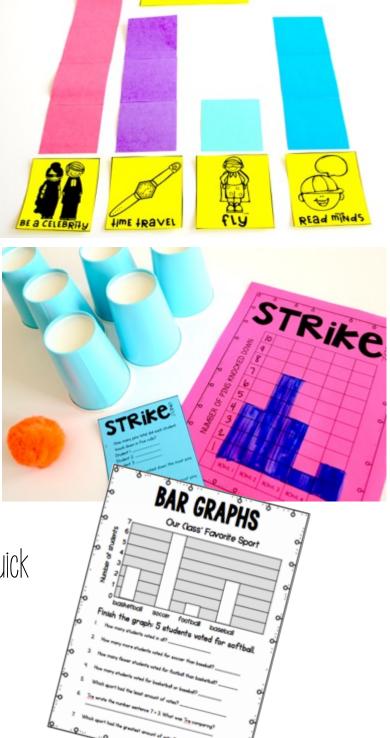


DAY Five

Minilesson: Would you rather bar graph practice.

Activity: Bowl and Graph

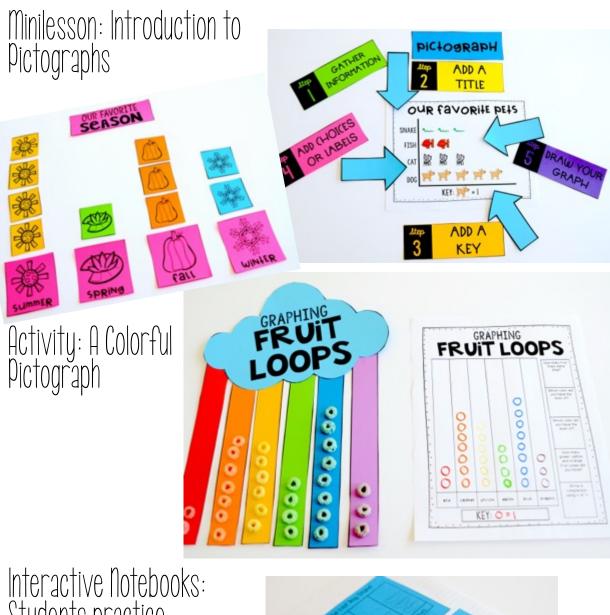
Assessment: Students complete the graphing quick check.



WOULD YOU RATHER



DAY ONE

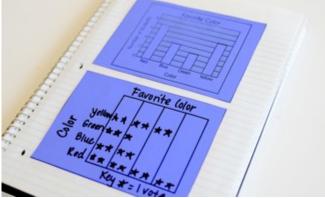


Interactive Notebooks: Students practice interpreting pictographs.





from a bar graph and create a pictograph.



Minilesson: Students survey the class to vote on a favorite sport.

Activity: Monster Burger Graph



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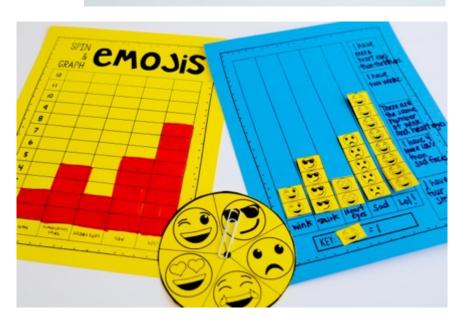
Interactive Notebooks: Students interpret the pictograph by comparing the data.



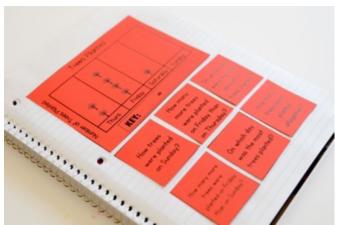
DAY FOUR

Minilesson: Students survey the class to vote on a favorite activity.





Interactive Notebooks: Students interpret the pictograph by comparing the data.



DAY Five

Minilesson: Students survey the class and vote on a favorite pet.

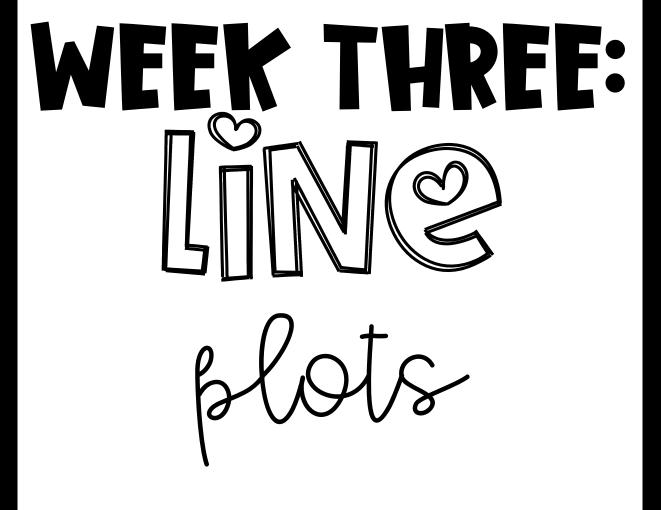






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Assessment: Students complete the pictograph quick check.



DAY 1

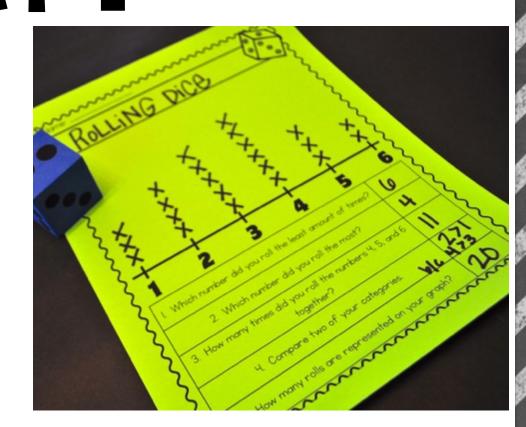
Minilesson: Line Plot Question Stems can be used all week long during the minilesson.



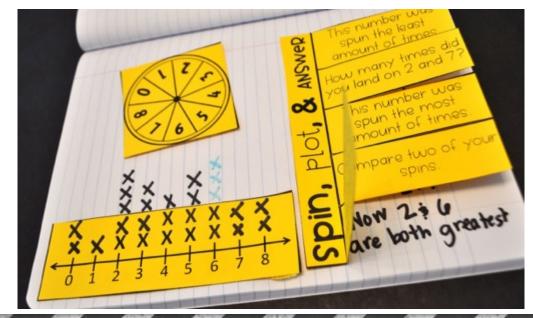
Whole Group Line Plots:



DF Activity: Rolling Dice

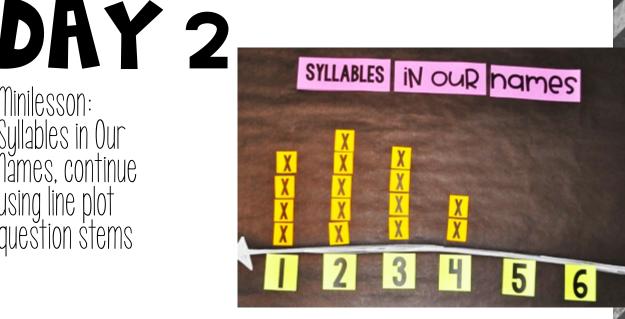


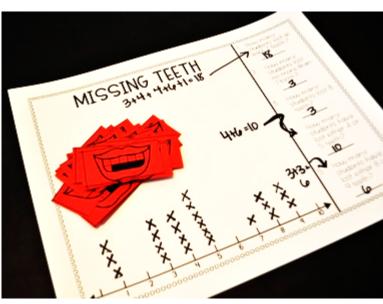
Interactive Notebooks: Spin, Plot, and Answer



Minilesson: Syllables in Our Names, continue using line plot question stems

Activity: Missing Teeth





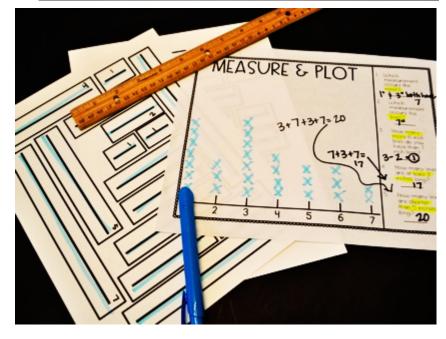
Interactive Notebooks:



Minilesson: Measure students and plot their heights

DAY 3

Activity: Measure and Plot



THE HEIGHT OF OUR students

48

50

Interactive Notebooks:



DAY 4 Minilesson: Measure the length of feet and plot measurements



Activity: Lend a Hand With Line Plots

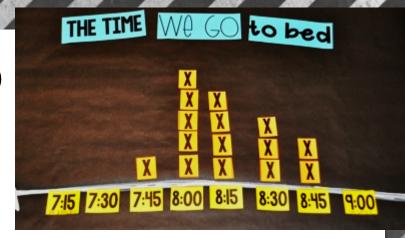




Interactive Notebooks:

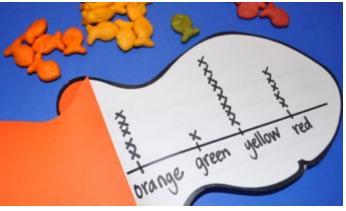


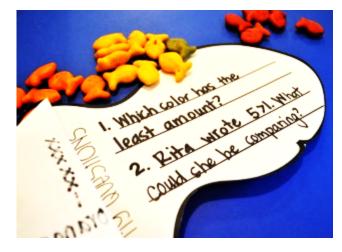




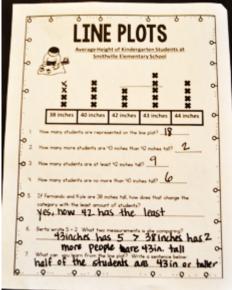
Activity: Snack and Plot



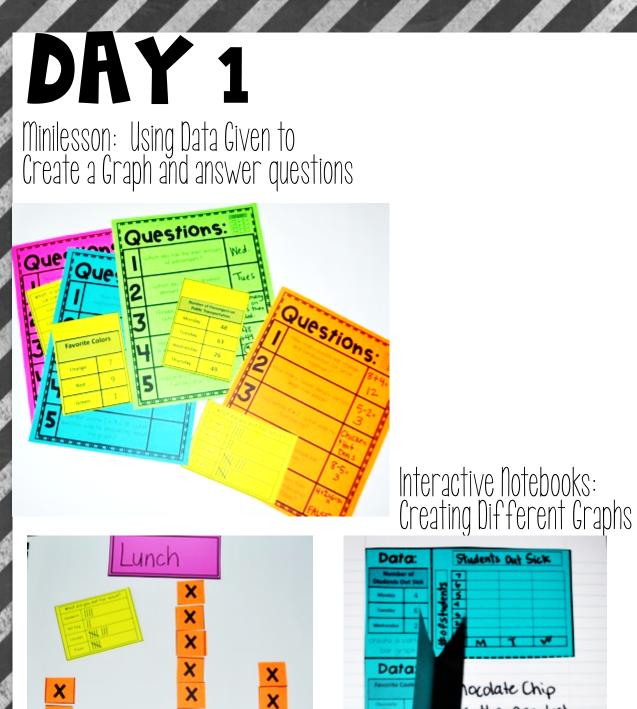




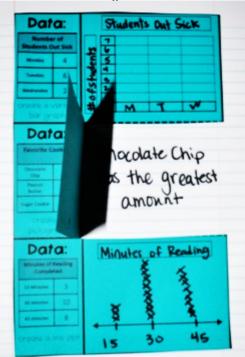
<u>Assessment:</u>







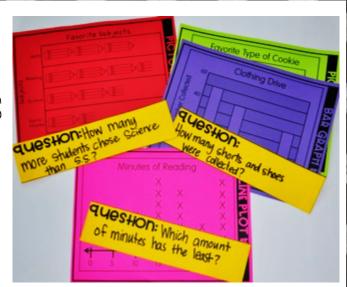




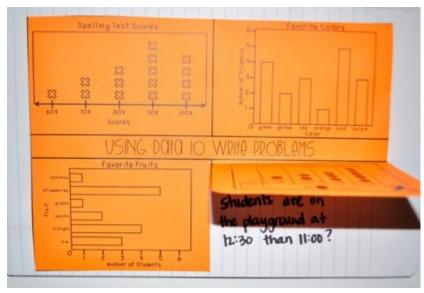
9ROUP ACTIVITY

POPIC ideas Favorité fa	Activity lotes: S S S S S S S S S S S S S
Students get into their graphing groups and choose a topic with four categories	Image: Sector 10 Favorite Favorite Favorite Favorite Favorite Favorite Favorite Favorite Favorite Favorite Favorite Favorite Gerree Favorite Favorite Favorite Favorite Favorite Favorite Favorite Gerree Favorite Favorite Favorite Favorite Favorite Favorite Gerree Favorite Favorite Favorite Favorite Favo

DAY 2 Minilesson: Creating Questions about Data



Interactive Notebooks: Using Data to Write Word Problems



Group Activity: Collecting Data/Survey

Surv	vey it!
Our Far	lorite Recess Activity
Activity:	Student Votes:
Swings	11111
Soccer	100
Gaga Ball	111111
Running	11
WHO did YOU	Survey?
Class- 22	students

DAY 3 Minilesson: Conclusions and Predictions

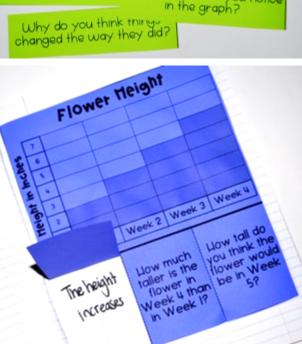
Jacob's Height Describe the change that the data shows. Can you make any predictions about what will What conclusion can you happen next? make after looking at the What patterns do you notice in the graph? Why do you think things changed the way they did?

Average Rainfall

Rachel's Soccer Prc

Weight of Kitten

Interactive Notebooks: Conclusions and Predictions



Group Activity: Creating Graphs



DAY 4 Minilesson: Predictions and Conclusions- Create a graph and discuss

Interactive Notebooks: Conclusions and Predictions

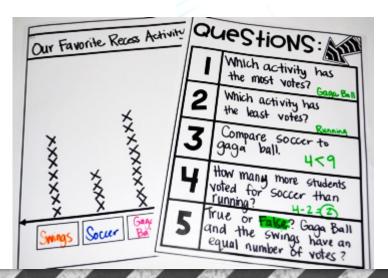


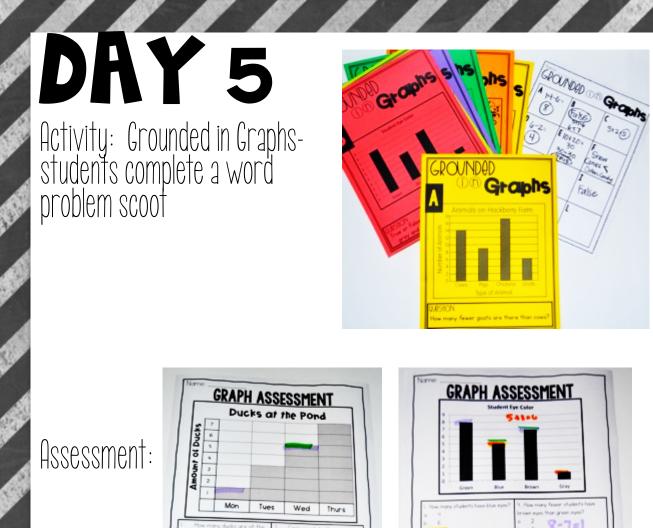
Februar

January

Herreases

Group Activity: Create Questions for Data





Group Activity: Share and Reflect



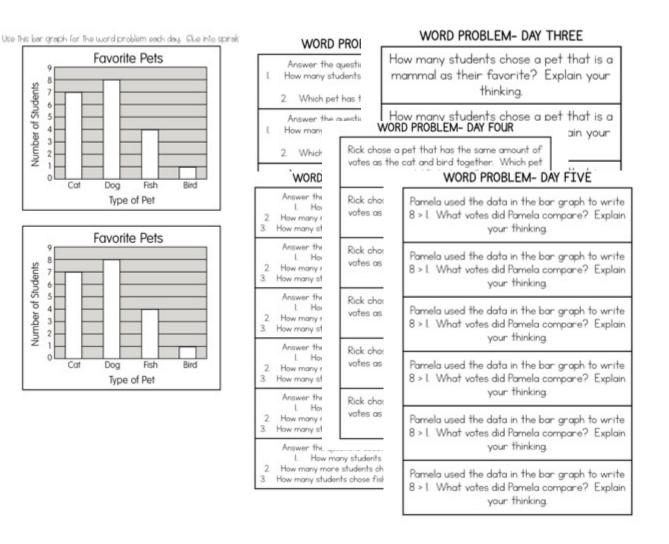
How many students

have gray eyes?

8+5+7+1

DAILY WORD PROBLEMS

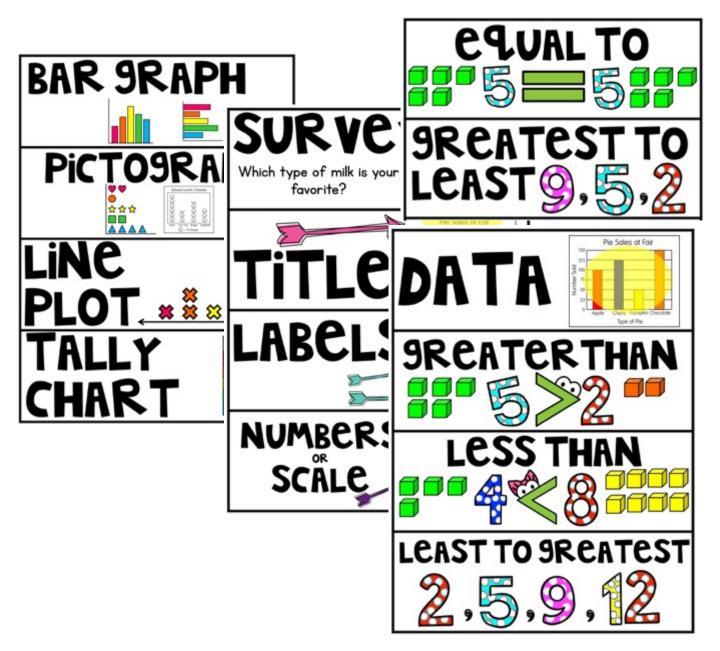
For this unit students will glue a graph into their notebook at the beginning of the week. Each day students analyze the graph and answer questions.



VOCABULARY CARDS

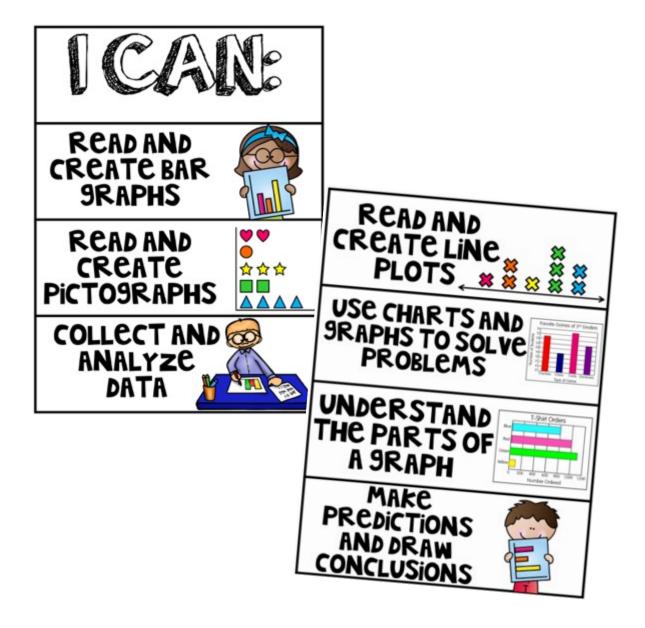
Cards that you can display on a math word wall or bulletin

board



CAN STATEMENTS

I Can Statements can be displayed throughout the unit.



GUICK ASSESSMENTS

