



About the Mathematics in This Unit (page 1 of 2)

Dear Family,

Our class is starting a new mathematics unit about data called *Surveys and Line Plots*. During this unit, students collect, represent, describe, and interpret data. Students also design and carry out their own data investigations.

Throughout the unit, students work toward these goals:

BENCHMARKS/GOALS	EXAMPLES																							
Organize, represent, and describe categorical data, choosing categories that help make sense of the data.	<p>What is your favorite game?</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;">Tag</td> </tr> <tr> <td></td> <td></td> <td>Baseball</td> </tr> <tr> <td></td> <td>Chess</td> <td>Hide and Seek</td> </tr> <tr> <td></td> <td>Mancala</td> <td>Kickball</td> </tr> <tr> <td>Hopscotch</td> <td>Ping Pong</td> <td>Capture the Flag</td> </tr> <tr> <td>Jump Rope</td> <td>Crazy Eights</td> <td>Red Rover</td> </tr> <tr> <td>Games you can play by yourself</td> <td>Games you play with a partner</td> <td>Games you play with a group</td> </tr> </table>					Tag			Baseball		Chess	Hide and Seek		Mancala	Kickball	Hopscotch	Ping Pong	Capture the Flag	Jump Rope	Crazy Eights	Red Rover	Games you can play by yourself	Games you play with a partner	Games you play with a group
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Interpret a bar graph.	<p>What do the data show us about this group? Most of the students like games that can be played with other people.</p>																							
Make a line plot for a set of numerical data.																								

(continued)



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BENCHMARKS/GOALS	EXAMPLES
Describe the shape of the data for a numerical data set, including where data are concentrated, where there are few data, what the lowest and highest values are, what the mode is, and where there is an outlier.	<p>The most states anyone has visited is 14.</p> <p>There is a clump of data from 1 state to 3 states.</p> <p>A few students have visited 7 or 8 states.</p>
Summarize a set of data, describing concentrations of data and what those concentrations mean in terms of the situation the data represent.	<p>Over half of the students in our class have visited between 1 and 3 states.</p> <p>More students have visited 3 states than any other number of states.</p>

Please look for more information and activities about *Surveys and Line Plots* that will be sent home in the coming weeks.