



Nice to Meet You!

- Introduction
- Grade Level?
- Are you using
 - PowerPoint?
 - SMART Notebook? (Watch for Version 10!!!)
- Do you have your students use
 - EXCEL for Graphing?
 - Graphing Calculator?
 - Graphing Applets (Web Based)?
 - Create their own PowerPoint presentation to COMMUNICATE their Mathematics?

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Some Technology We've Been Using				
Bar Graph Applets Shodor Education Foundation: <u>http://www.shodor.org/interactivate/activities/BarGraph/</u>				
NCTM Illuminations http://illuminations.nctm.org/ActivityDetail.aspx?ID=63				
Circle Graph <u>http://illuminations.nctm.org/ActivitySearch.aspx</u>				
NCEC Grapher for Kids – FREE and Amazing http://nces.ed.gov/nceskids/createagraph/				
EXCEL				
Graph Club 2.0 by Sunburst				
Calculators Graphing: TI-73 Explorer, TI-84 Plus, TI-Nspire Scientific: TI-30 MultiView & TI-34 MultiView (New) ⁵				

























Sample Tasks	from the NYS Standard	5			
<i>Organization and Display of Data</i> 5.5.2 Display data in a line graph to show an increase or decrease over time					
5.5.2a - Construct a line graph from the information listed below:					
Normal Monthly Temp	erature in Fahrenheit for Albany, New York				
January	22				
February	25				
March	36				
April	47				
May	58				
June	66				
July	71				
August	69				
September	61				
October	48				
November	39				
December	28	18			
(Source: World Alman	ac, 2004)				

S	ample Tasks from the NYS Standards				
	5.5.3 Construct Venn diagrams to sort data 5.5.3a - There are 20 students in Jolene's class. She noticed 8 students are wearing jeans, 7 students are wearing tshirts with the school logo, and 3 students are wearing both jeans and the school r-shirt. Construct a Venn diagram to represent the data. How many students are wearing jeans and a t-shirt? How many students are wearing boants other than jeans and a t-shirt without the school logo?				
	6.5.4 Determine and justify the most appropriate graph to display a given set of data (pictograph, bar graph, line graph, histogram, or circle graph)				
	6.5.4a - The chart below shows the number of bottles each 6th grade class has collected for the recycling drive. What would be the best way to display the data? Show your choice and explain your answer.				
	Number of Bottles Collected in a Week				
	Class # of bottles				
	5A 75				
	5C 103				
	5K 87				
	5L 38				
	5P 110 19				
	6T 63				

Sample Tasks from the NYS Standards

$7.5.3\ Convert\ raw\ data\ into\ double\ bar\ graphs\ and\ double\ line\ graphs$

7.S.3a

Give each student a 1/2 ounce box of raisins, but do not let them open the boxes. Ask them how many raisins they think would be in one of these boxes. Record the student responses on a chart containing the names of the students along with two columns, one labeled *prediction* and one labeled *actual count*. Next have them actually count the number of raisins in each box and record these results. Have the students create a double bar graph comparing the predicted results to the actual results. Discuss the scale used and how to make a key to differentiate between the two bars used for each person, one for estimate and one for actual count. Once the graphs are completed, follow up with questions from 7.S.6a. The students can also create a double line graph, or half of the students could construct a double line graph and the other half a double bar graph. Have the class compare their graphs and discuss the advantages and disadvantages of each method.

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