

				Program:	Teacher Exchange Program - Rehau																														
				Instructor:	Karen McReath																														
				Course Title:	2nd Grade Math																														
Date:				June 14 - 18, 2010																															
Lesson Length:				3 Days																															
Topics:				Bar Graphs, Using Surveys and Tally Marks																															
<p>OVERVIEW / ANNOTATION: Bar graphs are used to readily show valuable information. Show a poster of ice cream to engage students. Then ask them their favorite flavors. Show them tally marks as they are telling their flavors. Discuss that the knowledge I just gained will help me know how much ice cream to buy for them to have an ice cream cone when we finish the lesson on Bar Graphs. Show them how to turn tally marks into a bar graph. Show a video from the internet about how bar graphs are used in the work place to show workers how much progress they are making.</p>																																			
<p>Repeat the process with their favorite animal and color. Have them work together in groups for their favorite animal. They first ask about favorite animals and survey their peers and use tally marks. Then they work together and create a bar graph using animal stickers. Have them work individually for their favorite color. They survey their peers to find their favorite colors and use tally marks. They can make a bar graph using the corresponding colors.</p>																																			
<p>BACKGROUND / PREPARATION: Gather all materials: stickers of animals, poster of ice cream, ice cream, ice cream cones, video of bar graphs used in the work place from the internet, math textbook</p>																																			
<p>PRIMARY LEARNING OBJECTIVES: Students will take a survey, use tally marks and then make a bar graph. Students will work as a team, and then individually. They can use various forms of items for keeping tallies. They can use stickers, blocks, or pencil tallies.</p>																																			
<p>ESSENTIAL QUESTION(S): Are you curious to find out what other people like? Do you like finding the answers to things quickly? Do you like making things colorful?</p>																																			
<p>Show students the same information in two forms: a written paragraph form about favorite kinds of ice cream, and then a colorful bar graph. Ask them which form of information was easier to understand.</p>																																			
<p>MATERIALS, EQUIPMENT AND TECHNOLOGY RESOURCES</p> <table border="1"> <tr> <td>X</td> <td>Textbook</td> <td></td> <td>Lab Manual</td> <td>x</td> <td>Video</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Adv. Committee</td> <td>x</td> <td>Posters</td> <td>x</td> <td>Multi-Media</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Speaker</td> <td>x</td> <td>Supplemental Materials</td> <td>x</td> <td>Internet</td> <td></td> <td></td> <td></td> </tr> </table>									X	Textbook		Lab Manual	x	Video					Adv. Committee	x	Posters	x	Multi-Media					Speaker	x	Supplemental Materials	x	Internet			
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<p>CONTENT STANDARDS & TASKS: <i>Alabama Course of Study</i></p>																																			
<p>PROCEDURES, ACTIVITIES, AND LEARNING EXPERIENCES</p> <table border="1"> <tr> <td>x</td> <td>Individual work</td> <td>x</td> <td>Group Work</td> <td>x</td> <td>Lecture</td> <td></td> <td></td> <td>Skills USA</td> </tr> <tr> <td>x</td> <td>Class Discussion</td> <td></td> <td>Project</td> <td></td> <td>Speaker</td> <td></td> <td></td> <td>Live Work</td> </tr> </table>									x	Individual work	x	Group Work	x	Lecture			Skills USA	x	Class Discussion		Project		Speaker			Live Work									
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x	Visuals	x	Review	x	Video		
x	Homework		Handout		Field Trip		
ASSESSMENT STRATEGIES							
x	Homework		Portfolio	x	Class Work	x	Test
							Feedback from Discussion
x	Teacher Observation		Other:	x	Performance	x	
LESSON INSTRUCTION INCLUDES:							
	Safety Instruction	x	Presentation	x	Higher Order Reasoning		
x	Project-Based Learning		Role Playing		Work Ethics		
	Integrated Academics		Simulation		Integrated CTSO Experiences		
	Employability Skills		Problem Solving Skills		Management Skills		
TEAMWORK ACTIVITIES:					PROVISIONS FOR INDIVIDUAL DIFFERENCES:		
Each student will survey students in classroom to see what their favorite color is, what their favorite ice cream is, and what their favorite animal is.		Students will have a study buddy to help them. They will be able to use a pencil, stickers, or blocks to make their tally marks.					
AVAILABLE STUDENT INDUSTRY CREDENTIALS:							
Students will take a survey in their home of different types of drinks, fruits and vegetables, and favorite tv shows.							
They will make tally marks to record their survey. They will create a bar graph to show their findings.							
COURSE / PROGRAM CULMINATING PROJECT:							
Students during a school day will observe and record data regarding favorite foods of peers.							
Students will make a tally table to record their data.							
Students will create a bar graph to show their peers favorite foods. At the end of their assignment I will remind them of our first survey of ice cream flavors and give them all an ice cream cone for break.							