

Grade Level 4th

What relationships are revealed through the exploration of math in the real world?

Unit Concept: Exploration	Thinking Process		Basic-----Abstract			
	Process	Knowledge	Comprehension	Application	Analysis	Evaluation
Memory, Recall, & Associative Learning	1/ Students brainstorm examples of math from <i>Math Curse</i> *List	2/ 3 Students recognize & solve problems in the book & classify/ categorize them indicating level *Classification chart		4/ Students spend a day investigating & recording how people use math in everyday activities both at home & school. *Journal, survey & graph	5/	6/
Critical Thinking		8/	9/	10/11 Students analyze the steps of problem solving by resolving real life mathematical problems, then compare/contrast multiple solutions & strategies generated by classmates for scenarios. *Attachments # 4 & 5		12/ Students will compose parallel problems based on journal entries from cell #4 and personal experiences *Design a worksheet
Research & Independent Investigation	13/	14/ Students discuss & develop a list of careers involving mathematics & reflective of a typical community. *List	15/ Students will depict relationship of math & the real world by solving career related mathematical problems. *Attachment #10, 11, or 12	16/ Students examine future career interests and prepare a set of interview questions for someone in the selected field. *Interview questions & interview	17/ Students deduce the influence of mathematical applications in the interviewed person's job, explore their future job & the relationship with math. *Summary report	18/
Creative Thinking	19/	20/21 Students investigate the math TEKS appropriate for a specific grade level of their choice and correlate those skills to an everyday life career. *Graphic organizer of choice		22/	23/ 24 Students will create problems that illustrate how professionals use math concepts to solve real life problems by developing a board game teaching nine mathematical concepts or a learning center based on the relationship of math within a real career to assist in the teaching of a lower grade level's math TEKS. *Board game or learning center	
Social & Emotional	25/	26/	27/	28/ Students reflect on their knowledge obtained through exploration of relationship between math and everyday careers.	29/30 Students generate their own interview questions, to be read by an interviewer, based on their research of a specific career which reveal the role of math within the career being portrayed. *Audio or Video taped interview of themself	

"adapted for LCISD from the Curry/Samara Matrix Model - TAGT 1993"