Career Corps Lesson Plan Template

Course Title: 7th Grade Math **Course Number: Total Duration: 1 day** Date/s:

Overview/Annotation: Career Opportunities: Distribution Center Employment

Essential Question: What are real-world applications to properties of operations? **Background/Preparation:**

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Content Standards				Correlation to Alabama COS		
M. 7.7.1: Define linear expression, rational, coefficient, and rational coefficient. M. 7.7.2: Simplify an expression by dividing by the greatest common factor (Ex. 18x + 6y= 6(3x + y). M. 7.7.3: Simplify expressions with parenthesis (Ex. 5(4 + x) = 20 + 5x). M. 7.7.4: Recognize the property demonstrated in a given expression. M. 7.7.5: Combine like terms of a given expression. M. 7.7.6: Recall how to find the greatest common factor. M. 7.7.7: Give example				·-10)		
Learning Tai	roets					
Algebra and FunctionsCreate equivalent expressions using the properties of operations	~					
6. Apply properties of operations as strategies to add, subtract, factor, and expand		expressions with rational co	efficients.			
7. Generate expressions in equivalent forms based on context and explain how the	quant	ities are related.				
Solve real-world and mathematical problems using numerical and algebraic expressions	, equat	ions, and inequalities.				
 Solve multi-step real-world and mathematical problems involving rational num needed. Assess the reasonableness of answers using mental computation and e 			l decimals), c	onverti	ng between forms as	
Use variables to represent quantities in real-world or mathematical problems a problems by reasoning about the quantities.			_	_		
a. Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.						
 Solve word problems leading to inequalities of the form px + q > r or p set of the inequality, and interpret it in the context of the problem. 	x + q <	cr, where p, q, and r are spec	cific rational	numbe	rs. Graph the solution	
Varied Learning Activities Procedures/Activities Safety Instructions		Materials/Equipment/ Technology Resources		Assessment Strategies		
Varied Learning Activities:	X	Textbook			Check homework	
Target Distribution Introduction		Printer/Copier machine	ter/Copier machine		Test/Quiz	
https://www.youtube.com/watch?v=GEMNhcVEN4E		Workbook/Handouts			Project	
A Career in Warehousing and Distribution	X	Internet		X	Participation	
https://www.youtube.com/watch?v=QTrzEZJEX0c		Computers		X	Class work	
		Microsoft Office Softwa	are		Review	
		Newspapers/Magazines			Presentation	
	X	LCD Projector		X	Oral Responses	
Procedures/Activities:		Scanner			Teacher Observation	
See Attached		Digital Camera			Demonstration	
		VCR/DVD player			Peer Evaluation	
Safety Instructions:		Television			Other:	
Safety fish uctions:		Other:			Other:	
Lesson Evaluation/Notations for Lesson Enhancement		Remediation and Accommodations Provisions for Individual Differences			tegrated Curriculum	
Distributive property Kuta worksheet practice—IXL practice Combining like terms practice—mathaides.com worksheet practice—IXL practice		Extended Time		_Employability Skills _Problem Solving Skills		
		Preferential Seating		_Management Skills _High-order Reasoning		
		Testing Accommodation			rk Ethic egrated CTSO Exper.	
		Copy of Teacher Notes			Integrated Academics: _S _R _W _SS _CS	
	X	8				
Teamwork Activities		Modifications Course/Program Enhancements Culminating Product				
		Remediation		`	ummating Froduct	
Career Readiness Indicators (CRIs) / Industry Credential/s		Communication				
(only applicable to high school)	Х	Peer Tutor		1		
		Other				

I authorize The Shelby County Chamber and 58INC. to publicize this lesson plan on their public webpage			
and distribute it as they see fit. Printed Name:	Geoffrey K Wymer		
Signature:			

Warehouse & Distribution Algebra Lesson

- I. Introduction to the Distributive property
 - A. Definition:
 - 1. To distribute means "to pass out"
 - 2. A distribution center is where companies pass their products out
 - 3. Watch the Target video
 - B. Problem
 - 1. 15d(2b + 3m + 6t) multiplying by the distributive property
 - 2. The Pradco distribution center wants to send 15 deer (d) targets to each store. There are 2 stores in Birmingham (b), 3 stores in Montgomery (m), 6 stores in Tuscaloosa (t)
 - 3. How many deer are they sending to each city?
 - C. Solution
 - 1. 30db + 45dm + 90dt
 - 2. 30 deer to Birmingham and 45 deer to Montgomery and 90 deer to Tuscaloosa
 - 3. Watch the Careers in Warehousing and Distribution video

II. Expansion

- A. Combining like terms
 - 1. This can be expanded to different products but then linked by cities (like terms)
 - 2. This is hope palletization is done in a distribution center to ship products to retailers.
- B. Students generate their own examples based on products they shop for in a variety of stores.

III. Careers

- A. Discuss the variety of positions found in a distribution center
- B. Discuss the importance of each position to the process
- C. Follow-up
 - 1. Have the kids identify and research a particular position in the distribution process (human resources, order picker, receiver, etc)
 - 2. Present what they learned to a small group or the whole class