CONNEAUT AREA SCHOOL DISTRICT			
		Company Compan	# WEEKS: 25 days
Fountions		L. Glaue o	# VVEERS: 33 Udys
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Focus (emphasis) Standards/FC		Technology/m:	anipulatives
CC.2.2.8.B.2 Understand the connections			
between proportional relationships, lines, and		Calculators, Sm	artboard, Study Island, rulers,
linear equations.		white boards, h	ighlighters, graph paper
M08.B-E.2.1 Analyze and describe linear relationships between two variables, using slope.			
M08.B-E.2.1.1 Graph proportio	onal relationships,		
interpreting the unit rate as th	e slope of the		
graph. Compare two different	proportional		
relationships represented in di	fferent ways.		
Example: Compare a distance-	ime graph to a		
distance-time equation to dete	ermine which of		
two moving objects has greate	r speed.		
MOS P E 2 1 2 Use similar right triangles to show			
and explain why the slope m is	the same between		
any two distinct points on a no	n-vertical line in		
the coordinate plane.			
M08.B-E.2.1.3 Derive the equation y = mx for a			
line through the origin and the equation $y = mx + mx$			
b for a line intercepting the ve	tical axis at b.		
CC 2 2 9 P 2 Analyze and solve linear equations			
<u>CC.2.2.8.B.3</u> Analyze and solve linear equations			
M08 B-F 3.1 Write solve graph and interpret			
linear equations in one or two variables, using			
various methods.	, 0		
M08.B-E.3.1.1 Write and identify linear equations			
in one variable with one solution, infinitely many			
solutions, or no solutions. Show which of these			
possibilities is the case by successively			
transforming the given equation into simpler			
- a a - a or a - b results (who	rea and hare		
different numbers)			
M08.B-E.3.1.2 Solve linear equ	ations that have		
rational number coefficients, including equations			

 whose solutions require expanding expressions using the distributive property and collecting like terms. M08.B-E.3.1.3 Interpret solutions to a system of two linear equations in two variables as points of intersection of their graphs because points of intersection satisfy both equations simultaneously. M08.B-E.3.1.4 Solve systems of two linear equations in two variables algebraically and estimate solutions by graphing the equations. Solve simple cases by inspection. Example: 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6. M08.B-E.3.1.5 Solve real-world and mathematical problems leading to two linear equations in two variables. Example: Given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair. 	
Important (reinforced) Standards/EC	Reading, writing, speaking strategies Journaling, read aloud, persuasive/informational/expository writing, graphic organizers, Frayer model, lecture, cooperative learning, board work, demonstration, Think-Pair-Share, note-taking, crossword puzzles
Vocabulary Coefficient, identity, multiplicative inverse, null set (empty set, no solution), identity (infinite solutions), properties, multistep equations, slope, rate of change, linear equation, simultaneous linear equations, constant of proportionality, constant of variation =, constant rate of change, direct variation, linear relationships, point-slope form, rise, run, slope, slope-intercept from, standard form, substitution, systems of	Questioning and discussion techniques Bellringers, Exit tickets, discovery, small/large groups, peer tutoring, games, homework review, dry erase boards

equations, x-intercept, y-intercept	
Real life application Business, engineering,	Performance assessment Test, Quiz, Performance Task, Homework, Projects, Notebooks, Study Island
Computation Operations involving real numbers, graphing	Accommodations/adaptations Differentiation strategies, small group instruction, cooperative learning, guided practice, peer tutoring, limited problems/choices, manipulatives and models, clarity checks, diagrams and graphs
SAS Module Resources www.pdesas.org: *Grade 8 Mathematics Assessment Anchors and Eligible Content *Mathematics Glossary *PA Core Mathematics, Grades PreK-12 *PA Standards Instructional Frameworks: Math (Go to Teacher Tools then Curriculum Mapping) *Math Cluster Matrix – Tri-folds 6-7-8	