CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS—Module 3			
UNIT OF STUDY: Expressions and Equations	COURSE/GRADE	E: Grade 7	# WEEKS: 30 days
Focus (emphasis) Standards/EC		Technology/ma	nipulatives
CC.2.2.7.B.3 Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations		Calculators, Smartboard, Study Island, rulers, white boards, highlighters, colored pencils, algebra tiles	
M07.B-E.2.1.1 Apply properties of calculate with numbers in any form between forms as appropriate. Exwoman making \$25 an hour gets a will make an additional 1/10 of he hour, or \$2.50, for a new salary of (or 1.1 × \$25 = \$27.50).	m; convert ample: If a a 10% raise, she er salary an		
M07.B-E.2.2.1 Solve word probler equations of the form px + q = r at where p, q, and r are specific ratio Example: The perimeter of a recta Its length is 6 cm. What is its width	nd p(x + q) = r, onal numbers. ongle is 54 cm.		
M07.B-E.2.2.2 Solve word probler inequalities of the form px + q > r where p, q, and r are specific ratio and graph the solution set of the iExample: A salesperson is paid \$5: \$3 per sale. This week she wants be least \$100. Write an inequality for sales the salesperson needs to mathe solutions.	or px + q < r, onal numbers, nequality. O per week plus ner pay to be at the number of		
M07.B-E.2.3.1 Determine the reasonswer(s) or interpret the solution context of the problem. Example: place a towel bar that is 9 3/4 inchedenter of a door that is 27 1/2 inchedenter of a door that	n(s) in the If you want to nes long in the hes wide, you inches from sed as a check		
Important (reinforced) Standards CC.2.2.7.B.1 Apply properties of orgenerate equivalent expressions	perations to	Journaling, read	g, speaking strategies I aloud, rmational/expository writing,

M07.B-E.1.1.1 Apply properties of operations to add, subtract, factor, and expand linear expressions with rational coefficients. Example 1: The expression $1/2 \cdot (x + 6)$ is equivalent to $1/2 \cdot x + 3$. Example 2: The expression 5.3 - y + 4.2 is equivalent to 9.5 - y (or -y + 9.5). Example 3: The expression 4w - 10 is equivalent to 2(2w - 5).

graphic organizers, Frayer model, lecture, cooperative learning, board work, demonstration, Think-Pair-Share, note-taking, crossword puzzles

Vocabulary

algebraic expression, arithmetic sequence, associative property, coefficient, commutative property, constant, counterexample, define a variable, distributive property, equivalent expressions, factor, factored form, like terms, linear expression, monomial, multiplicative identity property, additive identity property, multiplicative property of zero, property, sequence, simplest form, term, variable, addition property of inequality, addition property of equality, coefficient, division property of equality division property of inequality, equation, equivalent equation, inequality, multiplication property of equality, multiplication property of inequality, solution, subtraction property of equality, subtraction property of inequality, twostep equation, two-step inequality.

Questioning and discussion techniques

Bellringers, Exit tickets, discovery, small/large groups, peer tutoring, games, homework review, dry erase boards

Real life application

Not limited to: formulas, work problems, cost for services rendered, geometry problems

Performance assessment

Test, Quiz, Performance Task, Homework, Projects, Notebooks, Study Island

Computation

Operations involving real numbers

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 7 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