CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS—Module 5		
UNIT OF STUDY: Functions from Geometry	**COURSE/GRADE:** Grade 8	**# WEEKS:** 10 days

Focus (emphasis) Standards/EC	**Technology/manipulatives**
<u>CC.2.2.8.C.1</u> Define, evaluate, and compare functions. **M08.B-F.1.1** Define, evaluate and compare functions displayed algebraically, graphically, or numerically in tables or by verbal descriptions. **M08.B-F.1.1.1** Determine whether a relation is a function. **M08.B-F.1.1.2** Compare properties of two functions, each represented in a different way (i.e., algebraically, graphically, numerically in tables, or by verbal descriptions). Example: Given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change. M08.B-F.1.1.3 Interpret the equation y = mx + b as defining a linear function whose graph is a straight line; give examples of functions that are not linear. **<u>CC.2.3.8.A.1</u>** Apply the concepts of volume of cylinders, cones, and spheres to solve real-world and mathematical problems. **M08.C-G.3.1** Apply volume formulas of cones, cylinders, and spheres. **M08.C-G.3.1.1** Apply formulas for the volumes of cones, cylinders, and spheres to solve real-world and mathematical problems. Formulas will be provided.	Calculators, Smartboard, Study Island, rulers, white boards, highlighters, graph paper
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 Continuous data, dependent variable, discrete data, domain, function, function table, independent variable, linear equation, linear function, nonlinear function, quadratic function, qualitative graphs, range, relation, composite solids, cone cylinder, hemisphere, lateral area, nets, polyhedron, similar solids, sphere, total, surface area, volume	**Questioning and discussion techniques** Bellringers, Exit tickets, discovery, small/large groups, peer tutoring, games, homework review, dry erase boards
Real life application Business, engineering, agriculture, construction	**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	