CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS, Adopted June 2019				
UNIT OF STUDY: Coordinate			# WFFKS: 6	
Geometry and Right Triangles	Applied Geometry			
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Module 3				
Focus (emphasis) Standards/EC:		Technology/manipulatives:		
G.2.1.1.1 Use the Pythagorean theorem to write		Chromebook		
and/or solve		Smart board		
problems involving right triangles.		Electronic text book		
CC.2.2.HS.C.9		Calculator		
Prove the Pythagorean identity and use it to				
calculate		3 D figures		
trigonometric ratios.		Nets		
UU.2.3.NJ.A./		Dice		
Apply trigonometric ratios to solve problems		CAD program		
Involving right triangles.		Online videos for reinforcement		
and/or solve		Studyzone.org		
and/or solve		Sludyisiana		
G 2 1 2 1 Calculate the distance and/or		Filsuimidum		
midnoint between		National Library of Virtual Manipulatives		
two points on a number line or on a coordinate				
nlane				
CC.2.3.8.A.3				
Understand and apply the Pythagorean theorem				
to				
solve problems.				
CC.2.3.HS.A.11				
Apply coordinate geometry to prove simple				
geometric				
theorems algebraically.				
G.2.1.2.2 Relate slope to perpen	dicularity			
and/or parallelism				
(limit to linear algebraic equations).				
G.2.1.2.3 Use slope, distance, and/or midpoint				
between two				
points on a coordinate plane to establish				
properties				
of a two-dimensional shape.				
	/50.	Deading		
All items listed above to be reinfo	read	Reading, writing, speaking strategies:		
All items listed above to be reinforced		word problems, journal writing, bell ringers,		
Two parallel lines and transversal		work sharing out to class note taking skills		
		development		

Vocabulary: alternate interior angles, alternate exterior, same side interior angles, same side exterior, corresponding angles, equiangular triangle, equilateral, exterior angle, polygon, regular polygon, remote interior angles, transversal, parallel lines, perpendicular lines, slope, distance formula, midpoint formula, Pythagorean Theorem, tangent, sine, cosine, elevation, depression, identity	Questioning and discussion techniques: Real world problems/applications, bill ringers, exit tickets, journals, Frayer model, small group tasks,
Real life application: Construction, roof truss, height of items in distance, airline industry, architecture, astronomy, traffic signs, farming equipment, amusement parks, Career connections: www.xpmath.com/careers/lite.php	Performance assessment: quiz, test, Studyisland, projects, homework, group discussion, water rocket project, rubber band cannon project
Computation: One step algebraic equations Two step algebraic equations SOHCAHTOA and trigonometry calculations Ratio and proportions Pythagorean theorem Supplementary angles Slope, distance, midpoint	Accommodations/adaptations: Limiting , homework problems, guided problem solving, peer groups, tutorial time, needs based on IEP
SAS Module Resources: http://www.pdesas.org/standard/PACore	