CONNEAUT AREA SCHOOL DISTRICT				
MATHEMATICS Adopted June 2019				
UNIT OF STUDY: Measurements	COURSE/GRADE	:	# WEEKS: 6	
of two dimensional shapes and	Applied Geomet	ry		
figures		-		
Module 1				
Focus (emphasis) Standards/EC:		Technology/manipulatives:		
G.2.2.1.1 Use properties of angles formed by		Chromebook		
intersecting		Smart board		
lines to find the measures of missing angles.		Electronic text book		
CC.2.3.8.A.2		calculator		
Understand and apply congruence, similarity, and geometric transformations using various tools.		Ruler		
CC.2.3.HS.A.3		3 D figures		
Verify and apply geometric theorems as they relate to		Nets		
geometric figures.		Dice		
G.2.2.1.2 Use properties of angles formed when two		CAD program		
parallel		Online videos for reinforcement		
lines are cut by a transversal to find the measures		Studyzone.org		
of missing angles.		Studyisland		
<b>G.2.2.2.1</b> Estimate area, perimeter, or circumference		Firstinmath		
of an		National Library of Virtual Manipulatives		
irregular figure. CC.2.2.HS.C.1		Graph paper		
Use the concept and notation of functions to interpret				
and apply them in terms of their context.				
CC.2.3.HS.A.3				
Verify and apply geometric theorems as they relate				
to geometric figures.				
CC.2.3.HS.A.9				
Extend the concept of similarity to determine arc				
lengths and areas of sectors of circles. <b>G.2.2.2.2</b> Find the measurement of a missing length,				
given				
the perimeter, circumference, or area.				
<b>G.2.2.2.3</b> Find the side lengths of a polygon with a				
given				
perimeter to maximize the area of the polygon.				
<b>G.2.2.2.4</b> Develop and/or use strategies to estimate				
the area				
of a compound/composite figure. <b>G.2.2.2.5</b> Find the area of a sector of a circle.				
<b>G.2.2.3.1</b> Describe how a change in the linear				
dimension of a				
figure affects its perimeter, circumference, and				
area				
CC.2.3.HS.A.8				
Apply geometric theorems to verify properties of				
circles.				
CC.2.3.HS.A.9 Extend the concept of similarity to determine arc				
Extend the concept of similarity to determine arc				

lengths and areas of sectors of circles. <b>G.2.2.4.1</b> Use area models to find probabilities. <b>CC.2.3.HS.A.14</b> Apply geometric concepts to model and solve real- world problems. Important (reinforced) Standards/EC: All items listed above to be reinforced	Reading, writing, speaking strategies: Word problems, journal writing, bell ringers,
throughout year. Two parallel lines and transversal	partner sharing, think aloud, paraphrasing, board 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, perimeter, circumference, area, apothem, arc length, central angle, concentric circles, geometric probability, segment of circle, semicircle	Questioning and discussion techniques: Real world problems/applications, bill ringers, exit tickets, journals, Frayer model, small group tasks,
Real life application: graphic design, maps, estimation of distance, molding, engineering, 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, crane projects, homework, group discussion, similarity architect project
Computation: One step algebraic equations Two step algebraic equations Ratio and proportions Pythagorean theorem Slope, distance, midpoint Area of various shapes	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	