CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS Adopted June 2019				
UNIT OF STUDY: Properties of Circles, Spheres, and Cylinders	COURSE/GRADE Applied Geomet	:	# WEEKS: 6	
Module 6				
Focus (emphasis) Standards/EC: G.1.1.1.1 Identify, determine, and/or use the radius, diameter, segment, and/or tangent of a circle. 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 lengths and areas of sectors of circles. CC.2.3.HS.A.13 Analyze relationships between two-dimensional and three-dimensional objects. G.1.1.1.2 Identify, determine, and/or use the arcs, semicircles, sectors, and/or angles of a circle. G.1.1.1.3 Use chords, tangents, and secants to find missing arc measures or missing segment measures. G.1.1.1.4 Identify and/or use the properties of a sphere or cylinder.		Technology/manipulatives: Chromebook Smart board Electronic text book calculator Ruler 3 D figures Nets Dice CAD program Online videos for reinforcement Studyzone.org Studyisland Firstinmath National Library of Virtual Manipulatives Graph paper		
Important (reinforced) Standards/EC: All items listed above to be reinforced throughout year. Tools of Geometry, circles and arcs		Word problems partner sharing	g, speaking strategies: s, journal writing, bell ringers, r, think aloud, paraphrasing, board ut to class, note taking skills	
Vocabulary: radius, diameter, segment, tangent, semicircles, sectors, chords, secants, arc measure, sphere, cylinder, cone, surface area, circumscribed about, inscribed, intercepted arc, point of tangency, standard form of circle		Real world prob	d discussion techniques: blems/applications, bill ringers, rnals, Frayer model, small group	
Real life application: graphic design, sports equipment, tool design, optics, engineering, architecture, astronomy, traffic signs, manufacturing, amusement parks, gears, bikes,		bridge construc	ssessment: quiz, test, Studyisland, ction projects, homework, group generated 3D figures	

astronomy, clocks, furniture, computer design, space probe, bridge design Career connections: www.xpmath.com/careers/lite.php	
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
Volumes of various shapes	
SAS Module Resources: http://www.pdesas.org/standard/PACore	