CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS				
UNIT OF STUDY: Measurements of three dimensional shapes and figures	COURSE/GRADE Applied Geomet	:	# WEEKS: 6	
Module 5		_ , , ,		
Focus (emphasis) Standards/EC: G.2.3.1.1 Calculate the surface area of prisms, cylinders, cones, pyramids, and/or spheres. Formulas are provided on a reference sheet. CC.2.3.8.A.1 Apply the concepts of volume of cylinders, cones, and spheres to solve real-world and mathematical problems. CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. CC.2.3.HS.A.14 Apply geometric concepts to model and solve realworld problems. G.2.3.1.2 Calculate the volume of prisms, cylinders, cones, pyramids, and/or spheres. Formulas are provided on a reference sheet. G.2.3.1.3 Find the measurement of a missing length given the surface area or volume. G.2.3.2.1 Describe how a change in the linear dimension of a figure affects its surface area or volume CC.2.3.HS.A.13 Analyze relationships between two-dimensional		Technology/mar Chromebook Smart board Electronic text b calculator Ruler 3 D figures Nets Dice CAD program Online videos fo Studyzone.org Studyisland Firstinmath National Library Graph paper	ook	
Important (reinforced) Standards/EC: All items listed above to be reinforced throughout year. Tools of Geometry, circles and arcs, parallel and perpendicular lines, congruent polygons, right triangles, area		Word problems, partner sharing,	s, speaking strategies: journal writing, bell ringers, think aloud, paraphrasing, board at to class, note taking skills	

Vocabulary: radius, diameter, sphere, cylinder, cone, surface area, cross sections, prism, pyramid, volume, lateral area, similar solids, altitude, edge, face, height, polyhedron	Questioning and discussion techniques: Real world problems/applications, bill ringers, exit tickets, journals, Frayer model, small group tasks
Real life application: graphic design, sports equipment, tool design, optics, engineering, architecture, astronomy, traffic signs, manufacturing, amusement parks, gears, bikes, astronomy, clocks, furniture, computer design, space probe, bridge design Career connections: www.xpmath.com/careers/lite.php	Performance assessment: quiz, test, Studyisland, 3D composite projects, homework, group discussion, self-generated 3D figures
Computation:	Accommodations/adaptations: Limiting ,
One step algebraic equations	homework problems, guided problem solving,
Two step algebraic equations	peer groups, tutorial time, needs based on IEP
Ratio and proportions	
Pythagorean theorem	
Slope, distance, midpoint	
Area of various shapes Volumes of various shapes	
SAS Module Resources:	
http://www.pdesas.org/standard/PACore	
integration of the state of the	