CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS		
UNIT OF STUDY: Congruence, Similarity, and Proofs	COURSE/GRADE: Geometry	# WEEKS:
Focus (emphasis) Standards/EC **G.1.3.1.1** Identify and/or use properties of congruent and similar polygons or solids. **G.1.3.1.1** Identify and/or use properties of congruent and similar polygons or solids. **G.1.3.2.1** Write, analyze, complete, or identify formal proofs **CC.2.3.HS.A.1** Use geometric figures and their properties to represent transformations in the plane. **CC.2.3.HS.A.2** Apply rigid transformations to determine and explain congruence. **CC.2.3.HS.A.5** Create justifications based on transformations to establish similarity of plane figures. **CC.2.3.HS.A.6** Verify and apply theorems involving similarity as they relate to plane figures. **CC.2.2.HS.C.9** Prove the Pythagorean identity and use it to calculate trigonometric ratios. **CC.2.3.HS.A.3** Verify and apply geometric theorems as they relate to geometric figures. **CC.2.3.HS.A.6** Verify and apply theorems involving similarity as they relate to plane figures. **CC.2.3.HS.A.8** Apply geometric theorems to verify properties of circles.	Technology/manipulatives I pad Smart board Electronic text book Ruler 3 D figures Nets Dice Studyzone.org Studyisland Firstinmath National Library of Virtual Manipulatives	
Important (reinforced) Standards/EC	Reading, writing, speaking strategies:	

All items listed above to be reinforced throughout year.	Word problems, journal writing, bell ringers, partner sharing, think aloud, paraphrasing
Vocabulary: inductive/deductive reasoning, counter example, midpoint, nets, angle bisector, point, parallel lines, perpendicular lines, ray, segment, planes, perimeter, circumference, area, isosceles triangle, conditional, biconditional, congruence, SSS, SAS, ASA, AAS, AAA, HL, CPCTC, ratio, proportion	Questioning and discussion techniques: Real world problems/applications, bill ringers, exit tickets, journals, Frayer model
Real life application Construction, roof truss, height of items in distance Career connections: www.xpmath.com/careers/lite.php	Performance assessment: quiz, test, Studyisland, projects, homework, group discussion
Computation One step algebraic equations Two step algebraic equations	Accommodations/adaptations
SAS Module Resources: http://www.pdesas.org/standard/PACore	