CC	ONNEAUT AREA SCHOOL	DISTRICT					
MATHEMATICS							
UNIT OF STUDY: Trigonometry: radian/degree measure, unit circle, right triangle, functions graphs, and applications	COURSE/GRADE: Pre Calculus		# WEEKS: 7				
Module 6	<u> </u>		<u> </u>				
Focus (emphasis) Standards/EC:		Technology/manipulatives:					
Use trigonometric functions and their inverses to evaluate and solve application problems Recognize and apply trigonometric identities to solve equations and complete proofs refer to PA standards		I pad					
		Smart board Electronic text book					
		calculator					
		Ruler					
		3 D figures					
		Nets					
		Dice					
		CAD program					
		Online videos for reinforcement					
		Studyzone.org					
		Studyisland					
		Firstinmath					
Important (reinforced) Standards/EC:		Reading, writing, speaking strategies:					
All previous pre calculus materials Polynomial functions of higher degree Synthetic division		Word problems, journal writing, bell ringers, partner sharing, think aloud, paraphrasing, board work, sharing out to class, note taking skills development					
				Zeros of polynomial functions			
				Rational functions			
Nonlinear Inequalities							
Vocabulary: radian, degree, conterminal, arc length, linear and angular speed, area of sector, unit circle, trigonometric functions, sine, cosine, tangent, secant, cosecant, cotangent, reference angle, amplitude, period, shrink/stretch, inverse, composition functions		Questioning and discussion techniques: Real world problems/applications, bill ringers, exit tickets, journals, Frayer model, small group tasks					

Real life application: finance, continuous compound interest, compound interest, radioactive decay, data analysis, population statistics, college enrollment, cost/revenue/profit, human memory, digital music sales, fluid flow, fuel use, diesel mechanics, path of diver, home prices, advertising, recycling, doubling investment, Career connections: www.xpmath.com/careers/lite.php	Performance assessment: quiz, test, Studyisland, performance projects, homework, group discussion, self-generated math labs	
Computation:	Accommodations/adaptations: Limiting ,	
Two step algebraic equations	homework problems, guided problem solving, peer groups, tutorial time, needs based on IEP	
Ratio and proportions		
Slope, distance, midpoint		
Cost benefit		
A trigonometric functions and manipulations		
SAS Module Resources: http://www.pdesas.org/standard/PACore		
http://www.corestandards.org/wp-content/uploads/Math_Standards.pdf		
http://www.education.pa.gov/K-12/Pages/default.aspx		
http://achievethecore.org/dashboard/300/search/1/2/9/10/11/12		