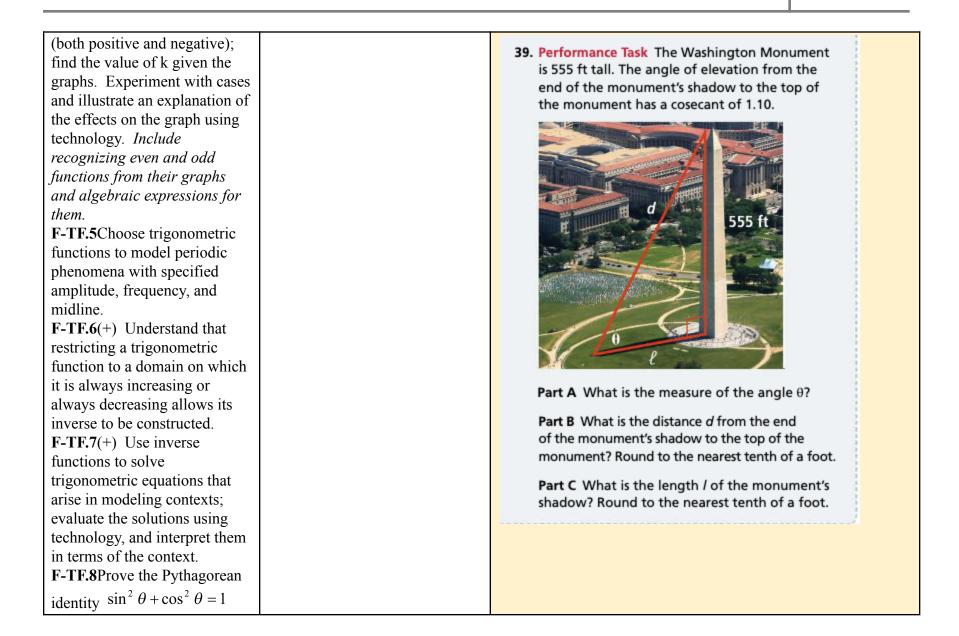
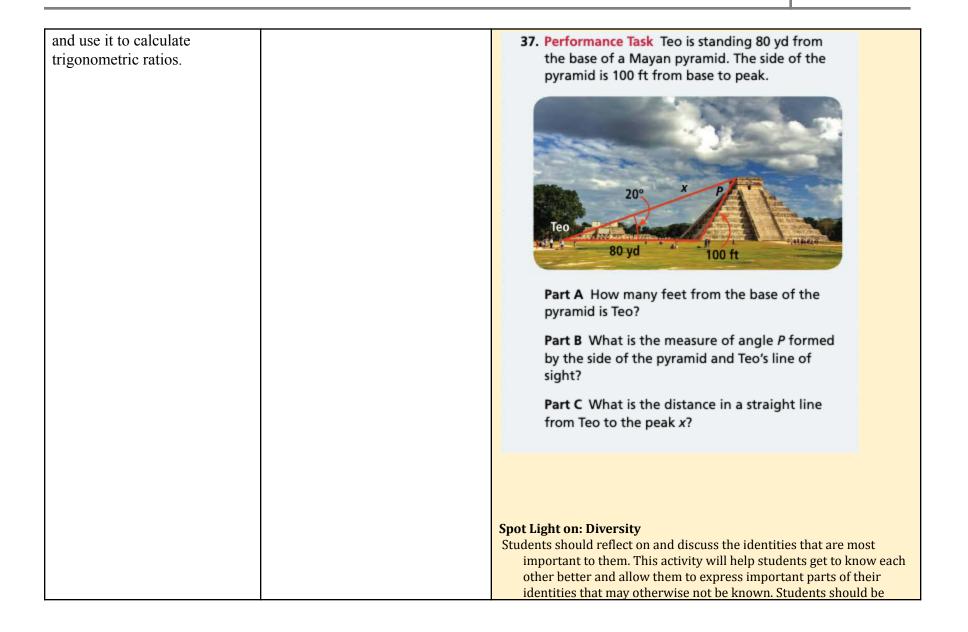
Marking Period 3		Unit Title Trigonometric Equations and Identities		Recommended Instructional Days 14-15 days	
3	for homewo	licator: zes • Practice problems rk • Online textbook • • IXL • Leveled		14-15 days ities, Investigations, ections, and/or Student NJSLS-CLKS within Unit and equations help you solve x numbers? using inverses solve a real world problem constraints addressed during the	
describing nutritional and cost constraints on combinations of different foods			Example Tasks: At the end of each topic please review the Assessment Practice and Performance Tasks questions.		

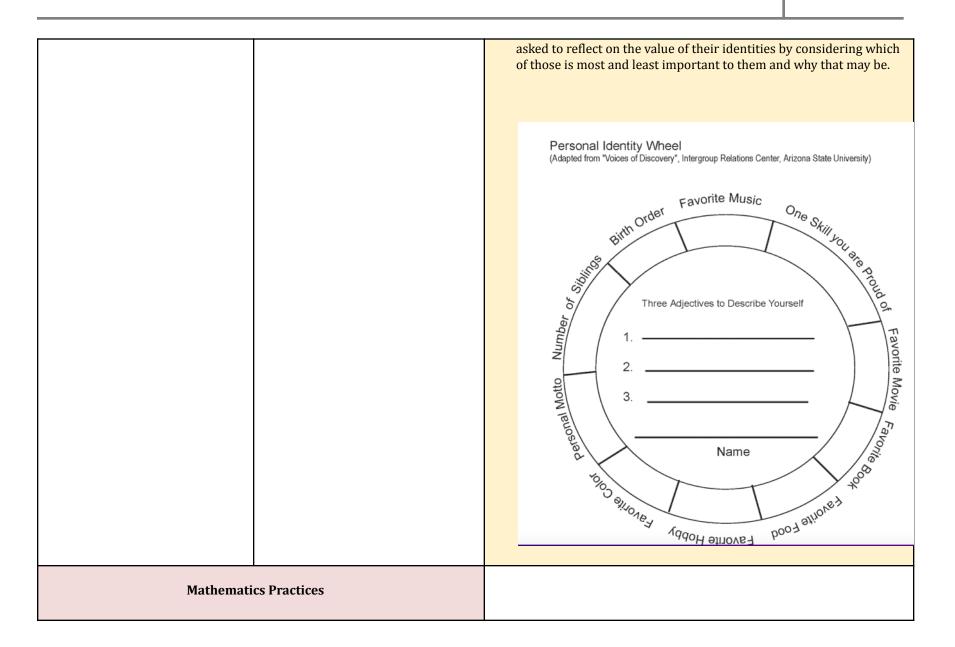
F-IF.4 For a function that	Mixed Review Available Online						
models a relationship between	ASSESSMENT PRACTICE						
two quantities, interpret key	Robert Hartice						
features of graphs and tables in	37. Solve the equation 4 sin ${}^2\pi - 3 = 0$ for π measured						
terms of the quantities, and	in radians. Determine if each of the following are						
sketch graphs showing key	part of the solution set. Select Yes or No.						
features given in a verbal							
description of the relationship.	Yes No						
Key features include:	a. $\frac{\pi}{6}$ + 2 $k\pi$, where k is an integer						
intercepts; intervals where the	b. $\frac{\pi}{3} + k_{\pi}$, where k is an integer						
function is increasing,							
decreasing, positive, or	c. $\frac{\pi}{3}$ + 2 $k\pi$, where k is an integer						
negative; relative maximums	d. $\frac{2\pi}{3}$ + 2k π , where k is an integer						
and minimums; symmetries;	e. $\frac{2\pi}{3} + k\pi$, where k is an integer						
end behavior; and							
periodicity.*	f. $\frac{5\pi}{6} + k\pi$, where k is an integer						
F-IF.5 Relate the domain of a							
function to its graph and,							
where applicable, to the							
quantitative relationship it							
describes. For example, if the							
function h(n) gives the number							
of person-hours it takes to							
assemble n engines in a							
factory, then the positive							
integers would be an							
appropriate domain for the							
function.*							
F-IF. 7. Graph functions							
expressed symbolically and							
show key features if the graph,							

by hand in simple cases and using technology for more	C	ASSESSMENT PRACTICE	1995 1997 (1997	
complicated cases.*		35. In <i>△EFG</i> , <i>m∠E</i> = 35°, e = 1	58 a	pdf = 10 Cho
Graph linear and quadratic		Yes or No to tell whether	-	
unctions and show intercepts,		value for $m \leq F$.		
maxima, and minima				
o.Graph square root, cube root,			Yes	No
nd piecewise-defined		These are no possible values		
unctions, including step		There are no possible values.		<u> </u>
inctions and absolute value		6.2°		
nctions.		60.3°		
Graph polynomial functions,				
entifying zeros, when		81.5°		
itable factorizations are		98.5°		
vailable, and showing end		119.7°	-	
ehavior.	×	119.7		
I.(+) Graph rational functions,				
dentifying zeros, and				
asymptotes when suitable				
actorizations are available,				
nd showing end behavior.				
.Graph exponential and				
ogarithmic functions, showing				
ntercept and end behavior, and				
rigonometric functions,				
howing period, midline, and				
mplitude.				
-BF.3 Identify the effect on				
he graph of replacing f(x) by				
f(x) + k, $kf(x)$, $f(kx)$, and $f(x)$				
-k) for specific values of k				





Content Area: Mathematics (NJSLS-M) Grades K - 12 Grade:



 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reason of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 				
Social and Emot	tional Learning:	Social and Emotional Learning:		
Compe	tencies	Sub-Competencies		
Self- awareness Recognizing the importance of				
Social A	wareness	self-confidence in handling daily tasks and challenges.		
	Demonstrate an awareness of the			
Self- Management expectations for social interactions in a variety of ways.				
Relationship Skills Demonstrate an understanding of the				
Responsible Decision-Making viewpoints differ.				
Recognize the skills needed to				
establish and achieve personal and educational goals.				
Utilize positive communication and				
social skills to interact effectively with others.				
Develop, implement, and model				
effective problem solving and critical thinking skills.				
Assessments (Formative)				
To show evidence of meeting the standard/s, students will successfully engage within:				

Dev. Date: December 2021

 Formative Assessments: Entry and Exit Slips Quizzes Self Assessments 		Benchmarks: • Chapter Tests • Projects Summative Assessments: • District Assessments • Midterms	 Chapter Tests Projects Summative Assessments: District Assessments 				
		Standardized Tests	Standardized Tests				
		tudent Access to Content: arning <i>Resources/Materials</i>					
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELL Core Resources	Gifted & Talented Core Resources				
 Textbooks websites Achieve the core Khan Academy Desmos 	Skill building worksheetsMath Manipulatives	 Dictionary for native languages Videos in their native language. 	Leveled AssessmentsEnrichment worksheets				
	Supple	nental Resources					
Other:	Calculators, Online math manipu Google Classroom, Interactive Te						
Differentiated Student Access to Content: Recommended Strategies & Techniques							
Core Resources			Gifted & Talented Core				
 Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, provide individual instruction as needed, 	Utilize a multi-sensory	reinforcement, check often for of understanding/review, oral/visual ple directions/prompts when	• Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based				

modify assessments	examples, modeling, etc.),	materials including use of an	extension activities, and
and/or rubrics, repeat	modify test content and/or format, allow students to retake test for additional credit, provide additional times and preferential seating as needed, review, restate and repeat directions, provide study guides, and/or break assignments into segments of shorter tasks.	online bilingual dictionary, and modified assessment and/or rubric.	connect student to related

	Disciplinary Concept: Creativity and Innovation							
NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Core Ideas:	Cultivating online reputations for employers and academia requires separating private and professional digital identities.						
	Performance Expectation/s:	9.4.12.DC.6: Select information to post online that positively impacts personal image and future college and career opportunities.						
	Career Readiness, Life Literacies, & Key Skills Practices							
	Act as a responsible and contributing community member and employee. Attend to financial well-being. Consider the environmental, social and economic impacts of decisions. Demonstrate creativity and innovation. Utilize critical thinking to make sense of problems and persevere in solving them. Model integrity, ethical leadership and effective management. Plan education and career paths aligned to personal goals. Use technology to enhance productivity, increase collaboration and communicate effectively. Work productively in teams while using cultural/global competence.							

New Jersey Legislative Statutes and Administrative Code (place an "X" before each law/statute if/when present within the curriculum map)								
Amistad Law: <i>N.J.S.A. 18A</i> <i>52:16A-88</i>		Holocaust Law: <i>N.J.S.A. 18A:35-28</i>		LGBT and Disabilities Law: <i>N.J.S.A.</i> <i>18A:35-4.35</i>	x	Diversity & Inclusion: <i>N.J.S.A. 18A:35-4.36a</i>		Standards in Action: <i>Climate Change</i>