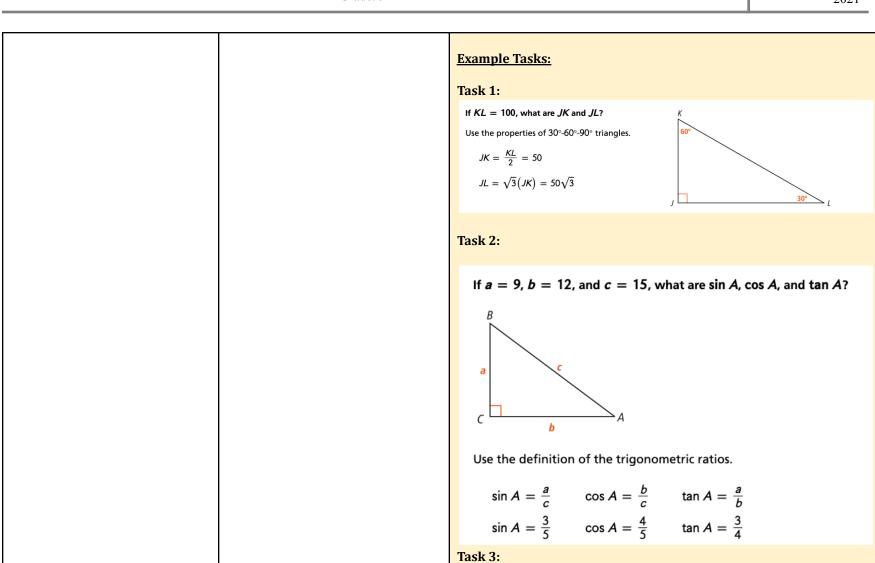
Updated Nov. 2021

Marking Period			Recommended	
<u> </u>		Right Trian	Instructional Days 15-20	
-	for homewor		<ul> <li>Theorem related?</li> <li>2. How do trigonometric ratilengths of right triangles?</li> <li>3. How can the Law of Sines band angle measures in acu</li> <li>4. How can the Law of Cosine lengths and angle measures</li> </ul>	ections, and/or Student JSLS-CLKS within Unit triangles and the Pythagorean os relate angle measures to side be used to determine side lengths te and obtuse triangles? s be used to determine side es in acute and obtuse triangles? used to solve real-world and thagorean Theorem



	For a reverse bungee ride, Reagan stands halfway between two vertical posts. Two bungee cords extend from the top of the posts to Reagan's waist at a height 1 m above the ground. How tall are the vertical posts? Write an equation to determine x m, the vertical distance from the top of a post to a point 1 meter above the ground. The unknown length and the 4 m length are opposite and adjacent to a 70° angle. So use the tangent function. $\tan 70° = \frac{x}{4}$ $x = 4 \tan 70°$ $x \approx 10.9899$ Find the height of the vertical posts. 11 + 1 = 12 The vertical posts are about 12 meters tall. Interdisciplinary Connections: Topic 8 Project, enVision STEM: Measure a Distance. Textbook page 344 and online Career Readiness, Life Literacies and Key Skills Content: Engineering; Construction. NJSLS#: G.SRT.C.6, G.SRT.C.7, G.SRT.D.11) (Next Generation Science Standards ETS1-2) Spot Light On: Alan Turning- English mathematician, computer scientist, logician, cryptanalyst, philosopher, and theoretical biologist. Turning was highly influential in the development of theoretical computer science.
Mathematics Practices	
<ol> <li>Make sense of problems and persevere in solving them.</li> <li>Reason abstractly and quantitatively.</li> <li>Construct viable arguments and critique the reason of others.</li> <li>Model with mathematics.</li> </ol>	

	Social and Emotional Learning:	
Social and Emotional Learning:	8	
Competencies	Sub-Competencies	
	Recognizing the importance of	
	self-confidence in handling daily tasks and challenges.	
	Demonstrate an awareness of the expectations for social interactions in a	
	variety of ways.	
	Demonstrate an understanding of the need for mutual respect when	
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)	Assessments (Summative)
To show evidence of meeting the standard/s, students will successfully		To show evidence of meeting the standard/s, students will successfully
engage Formative Assessments:	within:	<i>complete:</i> Benchmarks:
Entry and Exit Slips		Chapter Tests
• Quizzes		• Projects
• Self Assessments		
		Summative Assessments:
		<ul><li>District Assessments</li><li>Midterms</li></ul>

2021

		Standardized Tests						
Differentiated Student Access to Content:								
Teaching and Learning Resources/Materials								
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELL Core Resources	Gifted & Talented Core Resources					
<ul> <li>Textbooks websites</li> <li>Achieve the core</li> <li>Khan Academy</li> <li>Desmos</li> <li>IXL</li> </ul>	<ul><li>Skill building worksheets</li><li>Math Manipulatives</li></ul>	<ul> <li>Dictionary for native languages</li> <li>Videos in their native language.</li> </ul>	<ul><li>Leveled Assessments</li><li>Enrichment worksheets</li></ul>					
Supplemental Resources								
Technology:         • Chromebooks, Graphing Calculators, Online math manipulatives         Other:         • Zoom and Google Meets, Google Classroom, Interactive Textbooks, Private Tutoring         Differentiated Student Access to Content:								
Recommended Strategies & Techniques								
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELL Core Resources	Gifted & Talented Core					
• Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, provide individual instruction as needed, modify assessments and/or rubrics, repeat	(VAKT) approach during instruction, provide alternate presentations of skills by varying the method	• Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of an online bilingual dictionary, and modified assessment and/or rubric.	• Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and connect student to related					

	study guides, and/or break assignments into segments o shorter tasks.	f				
	Disciplinary Concept: Creativity and Innovation					
	Core Ideas:	With a growth mindset, failure is an important part of success				
NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Performance Expectation/s:	9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1.12prof.CR3a).				
	Career Readiness, Life Literacies, & Key Skills Practices					
	<ul> <li>Act as a responsible and contributing community member and employee.</li> <li>Attend to financial well-being.</li> <li>Consider the environmental, social and economic impacts of decisions.</li> <li>Demonstrate creativity and innovation.</li> <li>Utilize critical thinking to make sense of problems and persevere in solving them.</li> <li>Model integrity, ethical leadership and effective management.</li> <li>Plan education and career paths aligned to personal goals.</li> <li>Use technology to enhance productivity, increase collaboration and communicate effectively.</li> <li>Work productively in teams while using cultural/global competence.</li> </ul>					

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