## Updated:

November 2021

Marking Period			Unit Title	Recommended Instructional Days	
1		Modeling with Line	ar Equations and Inequalities	8-18	
NJSLS         NJSLS         Strand:         Standards (Taught and Assessed):         A.CED.A.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.         N.Q.A.1 Use units as a way to understand problems and to guide the solution of multi-step problems; Choose and interpret units consistently in formulas; Choose and interpret the scale and the origin in graphs and data displays         A.REI.D.10 Understand that	Progress Indi Tests • Quizz for homewori Worksheets • assessments	Grator:         es • Practice problems         k • Workbook pages •         Focus Packet • Leveled	ar Equations and Inequalities Recommended Activ Interdisciplinary Connection Experiences to Explore N Essential Question/s: 1. What is the difference betwee 2. How do you write a compoun- inequalities? 3. What is the difference betwee 4. How do you know whether a inequality that involves And Activity Description: • Graphing and writing ine • Solving inequalities by and • Solving inequalities by m • Solving inequalities by m • Solving inequalities with • Solving compound inequality • Example tasks below. • Task 1:	Instructional Days         8-18         ities, Investigations, ections, and/or Student         JSLS-CLKS within Unit         en simplifying and solving?         nd inequality as two simple         en intersection and union?         graph represents a compound or Or?         equalities.         dding or subtracting.         nultiplying or dividing.         tli-step inequalities         variables of both sides.         alities.         nequalities.	
the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often			<ol> <li>Sam earned \$450 during win camping trip over spring bre on music. Write an inequality Then, graph the inequality.</li> </ol>	Iter vacation. He needs to save \$1 ak. He can spend the remainder o y to show how much he can spend	

forming a curve (which	
could be a line).	Answer:
A.CED.A.3 Represent	
constraints by equations or	A 110.
inequalities, and by	ANS: $180 + s \le 450; s \le 270$
systems of equations	s
and/or inequalities, and	-500 -400 -300 -200 -100 0 100 200 300 400 500
interpret solutions as viable	
or nonviable options in a	
modeling context. For	Task 2:
example, represent	Solve the compound inequality and graph the solutions.
inequalities describing	$-a + 8 \le -2 \circ p - 3a \ge -9$
nutritional and cost	
constraints on	
combinations of different	Answer:
foods.	
A.REI.D.12 Graph the	ANS:
solutions to a linear	a < 3  OR  a > 10
inequality in two variables	
as a half-plane (excluding	
the boundary in the case of	
a strict inequality), and	
graph the solution set to a	
system of linear	Task 3:
inequalities in two	Solve the compound inequality.
variables as the	$6 \le x - 2 < 14$
intersection of the	
corresponding half-planes.	

Content Area: Mathematics (NJSLS-M) Grades K - 12 Grade:9				
	Answers:			
	ANS: $8 \le x < 16$			
	Task 4:			
	Solve the inequality. -3(x-1) > -3x-2			
	Answer: All Real Numbers			
	Interdisciplinary Connections: Social Studies Dor Geography, People, and the Environment	nain;		
	<b>Content:</b> Planning a trip on a budget - \$200			
	<ul> <li>Students choose a place they would realis visit.</li> </ul>	stically like to		
	• Students research the location to complet including	e a spread sheet		
	o travel expenses (plane, train, renta	al car, gas)		
	o lodging expenses			
	o food expenses (breakfast, lunch, c	linner, snack)		
	o include at least 1 activity			

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

Grade:9	Dev. Date: 2021
<ul> <li>Complete the inequality: travel activity(s) &gt; or = \$200</li> <li>Based on research and the inequality amount of money for each even</li> <li>Students will write a word equal category showing how the mone (miles / miles per gallon = # of less than or equal to determined of the solve to make sure you come in solve to make sure you come in</li> <li>Discussion questions <ul> <li>What were some problet when doing this activity</li> <li>How did you solve them</li> <li>What would have been to the transmitter of the word in the solve to make sure you do the solve to make sure you do the solve to make sure you come in</li> </ul> </li> <li>Discussion questions <ul> <li>What were some problet when doing this activity on the would you solve them</li> <li>What would have been to the would you do differ or What would you do the transmitter the solve the solve the solve them the solve the solve the solve the solve them the solve the s</li></ul></li></ul>	<ul> <li>+ lodging + food +</li> <li>aality, students assign an t category.</li> <li>tions under each event event</li></ul>

Content Area: Mathematics (NJSLS-M) Grades K - 12
Grade:9

Mathemat	ics 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> <li>Use appropriate tools strategically.</li> <li>Attend to precision.</li> <li>Look for and make use of structure.</li> <li>Look for and express regularity in repeated reasoning.</li> </ol>		
Social and Emotional Learning:	Social and Emotional Learning:	
Competencies Sub-Competencies		
Self- awareness Social Awareness	Recognizing the importance of self-confidence in handling daily tasks and challenges.	
Self- Management expectations for social interaction		
Relationship Skills Responsible Decision-Making	In a variety of ways. Demonstrate an understanding of the need for mutual respect when 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.	

Dev. Date: 2021

	Develop, implement, and model effective problem solving and critical thinking skills.					
Assessments (	Formative)	Assessments	(Summative)			
To show evidence of meeting the star	ndard/s_students will successfully	To show evidence of meeting the s	tandard/s_students will successfully			
10 show evalence of meeting the sun	nithin.	no snow evalence of meeting the summary, students with successfully				
Enguge w	untn.	Donohmanlise	piele.			
Formative Assessments:		Denchmarks:				
• Entry and Exit Slips		Chapter Tests				
• Quizzes		Projects				
<ul> <li>Self Assessments</li> </ul>						
		Summative Assessments:				
		<ul> <li>District Assessments</li> </ul>				
		Midterms				
		<ul> <li>Standardized Tests</li> </ul>				
Differentiated Student Access to Content:						
	Teaching and Learnin	ng Resources/Materials				
Core	Alternate	ELL Gifted & Talented				
Resources	Core Resources	Core Resources	Core Resources			
Resources	IFD/50//At Disk/FSI	Core Resources	Core Resources			
Teuthoolig webgites	Shill building workshoots	Distignary for notive	• Loveled Aggeggments			
• Textbooks websites	• Skill building worksheets		• Leveled Assessments			
• Achieve the core	Math Manipulatives	languages	• Enrichment worksheets			
• Khan Academy		• Videos in their native				
<ul> <li>Desmos</li> </ul>		language.				
	Supplement	al Resources				
Technology:						
Chromebooks Granhing Cale	ulators Online math manipulatives					
Other	nators, onnie materinanpulatives					
• Zoom and Google Meets Goog	ala Classroom Interactive Textbooks					
• Loom and Google Meets, Google Classroom, Interactive Textbooks						
	Differentiated Student Access to Content:					
	Differentiated Stude	taging & Tashuigung				
	Recommended Stra	tegies & Techniques				
Core	Alternate	tegies & Techniques	Gifted & Talented			
Core Resources	Alternate Core Resources	ELL Core Resources	Gifted & Talented Core			

Deliver instruction utilizing varied	Utilize a multi-sensory (VAKT)	Extend time requirements, preferred	Create an enhanced set of		
learning styles including audio, visual,	approach during instruction,	seating, positive reinforcement, check	introductory activities, integrate		
and tactile/kinesthetic, provide	provide alternate presentations	often for understanding/review,	active teaching/learning		
individual instruction as needed,	of skills by varying the method	oral/visual directions/prompts when	opportunities, incorporate		
modify assessments and/or rubrics,	(repetition, simple explanations,	necessary, supplemental materials	authentic components, propose		
repeat	additional examples, modeling,	including use of an online bilingual	interest-based extension		
-	etc.), modify test content and/or	dictionary, and modified assessment	activities, and connect student to		
	format, allow students to retake	and/or rubric.	related		
	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.				

	Disciplinary Concept: Critical Thinking and Problem-solving				
NJSLS CAREER READINESS, LIFE LITERACIES & KEY	Core Ideas:	Collaboration with individuals with diverse experiences can aid in the problem-solving process, particularly for global issues where diverse solutions are needed.			
SKILLS	Performance Expectation/s:	<ul> <li>9.4.12.CT.1: Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1.12acc.C1b, 2.2.12.PF.3).</li> <li>9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving (e.g., 1.3E.12profCR3.a).</li> <li>9.4.12.CT.3: Enlist input from a variety of stakeholders (e.g., community members, experts in the field) to design a service learning activity that addresses a local or global issue (e.g., environmental justice).</li> <li>9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes.</li> </ul>			

Career Readiness, Life Literacies, & Key Skills Practices
Act as a responsible and contributing community member and employee.
Consider the environmental, social and economic impacts of decisions.
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: N.J.S.A. 18A 52:16A-88		Holocaust Law: N.J.S.A. 18A:35-28		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>