Updated:

November 2021

Marking Period		1	Recommended Instructional Davs		
1		Inequalities ar	nd Systems of Equations	8-18 days	
Do <i>NJSLS</i> <i>Strand:</i> Standards (Taught and Assessed): A.CED.A.1 Create equations and	main: Progress Ind • Test	licator:	Recommended Activ Interdisciplinary Conn Experiences to Explore N	/ities, Investigations, ections, and/or Student JSLS-CLKS within Unit	
to solve problems. <i>Include equations</i> <i>arising from linear and quadratic</i> <i>functions, and simple rational and</i> <i>exponential functions.</i>	 Quizzes Practice problems for homework Workbook pages Worksheets Focus Packet 		Essential Question/s: 1. What does the solution of the system 2. What does the intersection of two lin 3. What does the intersection of two lin	m represent? ines represent? ir is not a solution of a linear inequality? iality symbol to use?	
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.			 How do you know if an ordered pair How do you determine which inequa 		
A.CED.A.3 Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. <i>For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.</i>	• Lev	eled assessments	Activity Description: Solving systems by Graphing. Solving Systems by Substitution Solving Systems by Elimination Solving Special Systems. Solving Linear Inequalities.	1. I.	

A.REI.C.6 Solve systems of linear					
equations exactly and approximately					
(e.g., with graphs), focusing on pairs of	Example	Tasks below			
linear equations in two variables.					
	<u>Task 1:</u>				
A.REI.C.5 Prove that, given a system of					
two equations in two variables, replacing	Solve each	h using two dif	ferent methods. Expla	in which method you fo	ound to be more
one equation by the sum of that equation	efficient.				
and a multiple of the other produces a	3x - 9y =	3	7x - 3y = 20	y = 1/2x - 6	
system with the same solutions	6x - 3y =	-24	5x + 3y = 16	2x + 6y = 19	
	Answer:				
A.REI.D.12 Graph the solutions to a					
linear inequality in two variables as a half	(-5,-2)		(3,1/3)	(11,-1/2)	
plane (excluding the boundary in the case					
of a strict inequality), and graph the					
solution set to a system of linear	T 1 A				
inequalities in two variables as the	<u> 1ask 2:</u>				
intersection of the corresponding	Solve Sh	ow all your wo	rk and explain your st	enc	
half planes	The triang	gle on the left h	as a perimeter of 14. T	The triangle on the right	has a perimeter
nan-planes.	of 21. Wh	at are x and y?	····· F ······		
		-			
	Tas	sk 2			\wedge
	Solv	e Show all your wo	rk and explain your stone	Λ	/
	3014	e. snow an your wo	rk and explain your steps.	5.	5
	The	triangle on the left h	as a perimeter of 14. The tria	ngle on the $y y \overline{4}^{y}$	/ \ 4
	right	t has a perimeter of	21. What are x and y?		
				X	3x
	Answer:				
	(2.6)				
	(2,0)				

	Task 3:Three hundred fifty-eight tickets to the school basketball game on Friday were sold.Student tickets were \$1.50, and nonstudent tickets were \$3.25 The school made\$752.25. How many student and nonstudent tickets were sold?Answer:235 student tickets and 123 nonstudent tickets were sold.Interdisciplinary Connections: Physical Education: 2.2 Physical Wellness; PhysicalFitness; NJSLS#: 2.2.12.PF.2In a basketball game, Marlene made 16 baskets. Each of the baskets was worth either 2 or 3 points and she scored a total of 39 points. Let x represent the number of two-point shots and y represent the number of 3-point shots. Write a system of equations in terms of x and y to model the situation.Answer: $x + y = 16$ $2x + 3y = 39$
	Highlight on:
	Use random response strategies.
Mathematics Practices	
 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 Emotional Learning:	Social and Emotional Learning:	
Sociar and Emotional Learning.	Social and Emotional Leaf Inig.	
Competencies	Sub-Competencies	
	Recognizing the importance of	
Self- awareness	self-confidence in handling daily	
	tasks and challenges.	
Social Awareness	Demonstrate an awareness of the	
	expectations for social interactions	
Self- Management	in a variety of ways.	
	Demonstrate an understanding of	
Relationship Skills	the need for mutual respect when	
	viewpoints differ.	
Responsible	Recognize the skills needed to	
Decision-Making	establish and achieve personal and	
	educational goals.	
	and social skills to interact	
	effectively with others	
	Develop implement and model	
	effective problem solving and	
	critical thinking skills.	
	E E	
Assessment	s (Formative)	Assessments (Summative)
To show evidence of meeting the s	tandard/s, students will successfully	To show evidence of meeting the standard/s, students will successfully
engage	e within:	complete:
Formative Assessments:		Benchmarks:
 Entry and Exit Slips 		Chapter Tests
• Quizzes		Projects
• Self Assessments		
		Summative Assessments:
		District Assessments Midterma
		 Inductions Standardized Tests
	Differentiated Studer	• Standardized rests
	Teaching and Learnin	g Resources/Materials

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							
	Supplemental Resources									
Technology: • Chromebooks, Graphing Ca Other: • Zoom and Google Meets, Go	culators, Online math manipulatives ogle Classroom, Interactive Textbooks									
	Differentiated Stude Recommended Stra	ent Access to Content: ategies & Techniques								
Core Resources	Alternate Core Resources	ELL Core Resources	Gifted & Talented Core							
Deliver instruction utilizing varied learning styles including audio, visua and tactile/kinesthetic, provide individual instruction as needed, modify assessments and/or rubrics, repeat	IEP/504/At-Risk/ESLUtilize a multi-sensory (VAKT)approach during instruction,provide alternate presentationsof skills by varying the method(repetition, simple explanations,additional examples, modeling,etc.), modify test content and/orformat, allow students to retaketest for additional credit,provide additional credit,provide additional times andpreferential seating as needed,review, restate and repeatdirections, provide study guides,and/or break assignments intosegments of shorter tasks.	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							

	Disciplinary Concept: Digital Citizenship				
NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Core Ideas:	Digital communities influence many aspects of society, especially the workforce. The increased connectivity between people in different cultures and different career fields have changed the nature, content, and responsibilities of many careers.			
	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				
	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: 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: N.J.S.A. 18A:35-4.36a		Standards in Action: <i>Climate Change</i>