Updated:

November 2021

<pre>rearrange Ohm's law V = IR to highlight resistance R. 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. N.RN.B.3 Explain why the sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational. N.Q.A.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</pre>	 Rate of change and slope The slope formula Slope intercept form Line of best fit Slope of parallel and perpendicular lines
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• Example tasks below			
 Task 1: Last year, the area of Jamie's garden was 32 square feet. This year, she added a new rectangular-shape section to her garden. The length of the new section of the garden is 12 feet. The total area of her garden now, last year's garden plus the new section is 116 square feet. Write an equation that can be used to determine the width (w) in feet of the garden. What is the width, in feet, of the new section of the garden? Maswer: 32 + 12W = 116 7 Feet 			
$\frac{\text{Task 2:}}{a. 24 = \frac{2}{3}x + 1224 = \frac{2}{3}x + 12}$ b. 0.5(y + 12) = -2.5y - 80.5(y + 12) = -2.5y - 8 c. $\frac{x-3}{5} = \frac{3xx-3}{7-5} = \frac{3x}{7}$			
Answer: a. 18 b7 c2.625			
Task 3 Becky is competing in an 8-mi road race. She runs at a constant speed of 6mi/h. Write an equation in slope-intercept form to represent the distance Becky has left to run.			
Answer y = -6x + 8 Interdisciplinary Connections: Career Readiness, life Literacies and			
Key Skills Content: Money Management ;NJSLS#: 9.4.12.PB.2			

		Arabica coffee cost \$28 per pound and Robusta coffee cost \$8.75 per pound. How many pounds of Arabica coffee must you mix with 3 pounds of Robusta coffee to make a blend that costs \$15.50 per pound?Answer: Write an equation to represent the situation $28a + 26.25 = 15.5(a + 3)$ $a = 1.62$ You must mix 1.62 pounds of Arabica coffee with 3 pounds of Robusta coffee to make a blend that cost \$15.50Spot Light on: • Sally Ride: First American woman in space.
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:	
Competencies	Sub-Competencies	

	Grade:9		2021	
Self- awareness	Recognizing the importance of self-confidence in handling daily			
Social Awareness	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 need for mutual respect when			
Responsible	viewpoints differ.			
Decision-Making	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.			
Assessn	nents (Formative)	Assessmen	ts (Summative)	
To show evidence of meeting	the standard/s, students will successfully	To show evidence of meeting the standard/s, students will successful		
en	gage within:	CO	mplete:	
ormative Assessments:		Benchmarks:		
 Entry and Exit Slips 		Chapter Tests		
• Quizzes		 Projects 		
• Self Assessments				
		Summative Assessments:		
		 District Assessments 		
		Midterms		
		Standardized Tests		
	Differentiated Stud	ent Access to Content:		
~	leaching and Learn	ing Resources/Materials		
Core	Alternate		Gifted & Talented	
Resources	Core Resources	Core Resources	Core Resources	
	IEP/504/At-Risk/ESL			

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

Dev. Date:

Content Area: Mathematics (NJSLS-M) Grades K - 12 Grade:9						
 Textbooks websites Achieve the core Khan Academy Desmos 	Skill building worksheetsMath Manipulatives	 Dictionary for native languages Videos in their native language. 	Assessments ent worksheets			
	Supplementa	al Resources				
Technology: Chromebooks, Graphing Calculators, Online math manipulatives Other: Zoom and Google Meets, Google Classroom, Interactive Textbooks 						
	Recommended Stra	tegies & Techniques				
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	Gifte	ed & 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	Utilize a multi-sensory (VAKT) approach during instruction, provide alternate presentations of skills by varying the method (repetition, simple explanations, additional examples, modeling, etc.), 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.	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 en introductory active teachi opportunitie authentic co interest-base activities, an related	hanced set of activities, integrate ng/learning es, incorporate mponents, propose ed extension d connect student to		

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	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 cr 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.				
	Demonstrate creativity and innovation.				
	Utilize critical thinking to make sense of problems and persevere in solving them.				
	Model integrity, ethical leadership and effective management.				
	The equivation and career paths angled 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	X	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>