Marking Period 1/2 Con			Unit Title Science Exploration	Recommended Instructional Days Approximately 10-12 days (Meet Once Per Week)		
Disciplinary Concept: AP	and Design ( Recognizing Computation	and Defining	Recommended Activities, Investigations, Interdisciplinary Connections, and/or Student Experiences to Explore NJSLS-CSDT within Unit			
Core Idea:	Perform	ance Expectation/s:				
Individuals design algorithms that are reusable in many situations. Algorithms that are readable are easier to follow, test, and debug. Control structures are selected and combined in programs to solve more complex problems. Programs use procedures to organize code and hide implementation details. Procedures can be repurposed in new programs. Defining parameters for procedures can generalize behavior and increase reusability. Individuals design and test solutions to identify problems taking into consideration the diverse needs of the users and the community	algorithms th using flowcha 8.1.8.AP.3: D develop prog structures, ind compound co 8.1.8.AP.4: D subproblems design, imple programs. 8.1.8.AP.9: D	becompose problems and into parts to facilitate the ementation, and review of pocument programs in a them easier to follow,	Essential Question/s:         How can I compose simple shapes to form larger shapes?         What is computer programming/coding?         Why is computer programming/coding important in my world?         How is computer programming used in everyday life?         How can I use programming/coding to complete challenges?         What are loops and conditionals?         Activity Description:         Using Project STEM Platform, students will explore the basics of computer science/programming while learning how to complete online challenges that require the knowledge of basic programming techniques and procedures. Both individually as well as while utilizing paired-			
Social and Emotional Learning: Competencies		Emotional Learning: -Competencies	programming, students will have the complete activities and tasks that exe	opportunity to collaborate to		

Content Area: Computer Science (NJSLS-	CSDT 8.1) Grades K - 12
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Grade: 6

Self Awareness	Recognize one's feelings and	skills. Use basic games to understand algorithms and how to start			
	thoughts	developing the mindset of a computer programmer for future projects.			
Self-Management	• Recognize the impact of one's				
C	feelings and thoughts on one's	Learn about parts of the programming platform SCRATCH to navigate			
Social Awareness	own behavior	and create basic digital scenes.			
	• Recognize the importance of				
Responsible-Decision Making	self-confidence in handling	Create scenes where sprites move around the screen randomly, or			
	daily tasks and challenges	through a specified coordinated effort.			
Relationship Skills	Understand and practice				
	strategies for managing one's	Debugging exercises throughout, learning how to identify mistakes and			
	own emotions, thoughts, and	revise code.			
	behaviors				
	• Recognize the skills needed to	Use knowledge of math skills with angles and spatial understanding the			
	establish and achieve personal	perimeter of a square, rectangle, triangle, and rectangle with unknown			
	and educational goals	side length to complete challenges.			
	• Recognize and identify the				
	thoughts, feelings, and	Define and use conditionals, including if/then/else statements in			
	perspectives of others	programming.			
	• Demonstrate an understanding				
	of the need for mutual respect	Use programming elements such as loops and conditionals, as well as			
	when viewpoints differ	record sounds and include appropriate music and aesthetic choices.			
	• Develop, implement, and				
	model effective problem-				
	solving and critical thinking	Interdisciplinary Connections: Content:			
	skills	CCSS.Math.Content.2.MD.A.1, CCSS.Math.Content.3.MD.D.8,			
	• Identify the consequences	CCSS.Math.Content.4.MD.A.3			
	associated with one's actions	NGSS: 3-PS2-2, K-2-ETS1-2			
	in order to make constructive				
	choices				
	• Evaluate personal, ethical,				
	safety, and civic impact of				
	decisions				
	- Tradition and according 1. 14				
	• Establish and maintain healthy				
	relationships				
	• Utilize positive				
	communication and social				
	skills to interact effectively				
	with others				

Assessmer	<ul> <li>Identify ways to resist inappropriate social pressure</li> <li>Demonstrate the ability to prevent and resolve interpersonal conflicts in constructive ways</li> <li>Identify who, when, where, o how to seek help for oneself o others when needed</li> </ul>	or	nts (Summative)	
	standard/s, students will successfully	To show evidence of meeting the	standard/s, students will successfully	
	ge within:		mplete:	
Formative Assessments:         • Exit Slips         • Quizzes         • Self Assessments/Reflection         • Lesson Activity Worksheets		Benchmarks:         • Performance Assessment         • Unit Assessments         Summative Assessments:         • District/Department Assessments		
	Differentiated Stud	ent Access to Content:		
		ing Resources/Materials		
Core	Alternate	ELL	Gifted & Talented	
Resources	Core Resources IEP/504/At-Risk/ESL	Core Resources		
https://projectstem.org/ http://youtube.com	Reteaching worksheets Spanish version of lesson activities	Dictionary for native language	Enrichment/Extension activities	
	Supplemen	ntal Resources		
Technology:         • Chromebooks, MacBook         • Projector         • Smartboard         • Pens, Pencils, Paper				
Other: • Schoology • Project STEM Platform • GAFE (Docs, Sheets, Slides	, Drawings, Sites)			

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 instructions as needed.	<ul> <li>Special Education: Adhere to IEP/504s. 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.</li> </ul>	• Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of online or paper bilingual dictionary, and modified assessment and/or rubric.	• Provide extension activities related to the topic being discussed. Create an enhanced set introductory activities, integrate active teaching/learning opportunities, incorpora authentic components, propose interest-based extension activities, and connect students to rela talent development opportunities.		

NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Core Ideas:	<ul> <li>Collaboration with individuals with diverse perspectives can result in new ways of thinking and/or innovative solutions.</li> <li>Curiosity and a willingness to try new ideas (intellectual risk-taking) contributes to the development of creativity and innovation skills.</li> <li>The ability to solve problems effectively begins with gathering data, seeking resources, and applying critical thinking skills.</li> <li>Different digital tools have different purposes.</li> <li>Collaborating digitally as a team can often develop a better artifact than an individual working alone.</li> </ul>				
	Performance Expectation/s:	<ul> <li>9.4.5.CI.1, 9.4.5.CI.2, 9.4.5.CI.3, 9.4.5.CI.4, 9.4.5.CT.1,</li> <li>9.4.5.CT.2, 4.5.CT.3, 9.4.5.CT.4, 9.4.5.TL.1, 9.4.5.TL.2, 9.4.5.TL.3,</li> <li>9.4.5.TL.4.</li> </ul>				
	Career Readiness, Life Literacies, & Key Skills Practices					
	• Use technology to enhance p	nnovation lke sense of problems and persevere in solving them: roductivity, increase collaboration and communicate effectively 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)							
Amist N.J.S.4 52:164		Holocaust Law: N.J.S.A. 18A:35-28		LGBT and Disabilities Law: <i>N.J.S.A. 18A:35-</i> <i>4.35</i>	Х	Diversity & Inclusion: N.J.S.A. 18A:35-4.36a	Х	Standards in Action: <i>Climate Change</i>