Marking Period			Recommended Instructional Days		
Trimester 2		Computer Pro	gramming with Ozobots	Approximately 14-16 days (Meet Once Per Week)	
Disciplinary Concept:		Practice:			
CS AP	Collaborating Around Computing and Design Recognizing and Defining Computational Problems Creating Computational Artifacts Testing and Refining Computational Artifacts Performance Expectation/s:		Recommended Activ Interdisciplinary Conno Experiences to Explore N	ections, and/or Student	
Core Idea:					
Individuals use computing devices to perform a variety of tasks accurately and quickly. Computer devices interpret and follow the instructions they are given literally. Individuals develop and follow directions as part of daily life. A sequence of steps can be expressed as an algorithm that a computer can process.	computing de variety of tast based on user 8.1.2.AP.1: N creating and t complete task 8.1.2.AP.2: N store and man	delect and operate evices that perform a large accurately and quickly reads and preferences. Model daily processes by collowing algorithms to as. Model the way programs inpulate data by using ther symbols to represent	Essential Question/s: What are the different parts of an Ozo How do I program a robot? How are the sequences in a short sto What are loops and why do we use the	ry like sequences in code?. nem when programming code?	
Real world information can be stored and manipulated in programs as data (e.g., numbers, words, colors, images). Computers follow precise sequences of steps that automate tasks.	information. 8.1.2.AP.3: (sequences an accomplish ta	Create programs with d simple loops to asks. Break down a task into a	How can you identify bugs in a program and fix them? Activity Description: Identify and label the hardware components of Ozobot Evo (Introduction to Ozobot: Get to know Evo).		

Complex tasks can be broken down into simpler instructions, some of which can be broken down even further. People work together to develop programs for a purpose, such as expressing ideas or addressing problems. The development of a program involves identifying a sequence of events, goals, and expected outcomes, and addressing errors (when necessary)l.	8.1.2.AP.5: Describe a program's sequence of events, goals, and expected outcomes. 8.1.2.AP.6: Debug errors in an algorithm or program that includes sequences and simple loops.	Ask students what types of robots they use in real life. Discuss how they used color codes to program a robot. Have students navigate through Ozobot Blockly (using the delete, duplicate, undo and redo blocks) and run the code on Ozobot using the instructional video and student handouts (Ozobot Blockly 01). Create sequences in programming, and program the Ozobot to perform a series of commands in order according to actions in a short story (Evo the Robot) (Ozobot Blockly 02). Build a short sequence and add a count controlled loop to program Ozobot to travel in a square (Ozobot Blockly 03). Create programs using forever loops with days of the week and seasons of the year (Ozobot Blockly 04).		
Social and Emotional Learning: Competencies	Social and Emotional Learning: Sub-Competencies	Color and cut the Blockly Blocks Activity sheet. Using the nine blocks, students will identify incorrect blocks that are hidden in programs by holding up a paper cut-out of the blocks. (Ozobot Blockly 05).		
Self Awareness Self-Management Social Awareness Responsible-Decision Making Relationship Skills	 Recognize one's feelings and thoughts Recognize the impact of one's feeling and thoughts on one's own behavior Understand and practice strategies for managing one's own emotions, thoughts, and behaviors. Recognize and identify the thoughts, feelings, and perspectives of others Demonstrate an understanding of the need for mutual respect 	Ozobot (My Community). Create a word problem using addition and subtraction and code 4 different solutions with 1 being the correct solution (Ozobot is a Math Detective). Interdisciplinary Connections: Content: ELA SL.1.1; L.1		
	 when viewpoints differ Develop, implement, and model effective problem- 			

	Supplement	tal Resources		
 Ozobot Classroom (plugged and unplugged resources) 	 Reteaching worksheets Spanish version of lesson activities 	 Dictionary for native language Enrichment/Extension activities 		
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELL Core Resources	Gifted & Talented Core Resources	
		ent Access to Content: ng Resources/Materials		
Lesson Activity Worksheets	5	District/Department Asses	sments	
 Self Assessments/Reflectio 	n	Summative Assessments:		
Quizzes		Unit Assessments		
rmative Assessments: ■ Exit Slips		Benchmarks: • Performance Assessment		
To show evidence of meeting the engag	ts (Formative) standard/s, students will successfully se within:	Assessments (Summative) To show evidence of meeting the standard/s, students will successfully complete:		
	skills Establish and maintain healthy relationships Utilize positive communication and social skills to interact effectively with others Identify who, when, where, or how to seek help for oneself o others when needed			

- Projector
- Interactive Whiteboard
- SeeSaw
- GAFE
- Ozobot Blockly

Other:

- Google Meet Conferencing Tool
- Pencils, crayons, markers, paper
- Ozobot unplugged handouts K packet
- Ozobot Library Advanced Grade 1 G & T
- youtube

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.	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	English Language Learners: 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 dictionaries, and modified assessment and/or rubric.	Provide extension activities related to the topic being discussed. Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and connect students to related talent development opportunities.		

	assignments into segments of shorter tasks • Students at Risk of School Failure: 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.					
	Disciplinary Concept: Creativity and Innovation, Critical Thinking and Problem-solving, Digital Citizenship, Technological LIteracy					
NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Core Ideas:	 Brainstorming can create new, innovative ideas Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the problem. Collaboration can simplify the work an individual has to do and sometimes produce a better product. 				
	Performance Expectation/s:	• 9.4.2.CI.1; 9.4.2.CT.3; 9.4.2.TL.4				
	Career Readiness, Life Literacies, & Key Skills Practices					
	 Act as a responsible and contributing community members and employee. Demonstrate creativity and innovation. Utilize critical thinking to make sense of problems and persevere in solving them. Use technology to enhance productivity, increase collaboration and communicate effectively. 					

Content Area: Computer Science (NJSLS-CSDT 8.1) Grades K - 12 Grade: 1

Dev. Date:	
August 2022	

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: N.J.S.A. 18A:35- 4.35		Diversity & Inclusion: N.J.S.A. 18A:35-4.36a		Standards in Action: Climate Change