Kindergarten Computer Science and Design Thinking Curriculum Map 2022

Pacing Guide	Standard Code & Indicator	Sample Learning	Assessment	Additional Standards
		Activities		

August-October	8.1.2.CS.1: Select and operate	-Discuss and list computer	Formative	Intoudigainling
August-October	computing devices that perform	safety rules	Assessments:	Interdisciplinary
Computing	a variety of tasks accurately and	safety fules	Classwork	Standard:
Systems,	quickly based on user needs and	-How can technology help	Student	L 2.4 Determine or
Networks and the	preferences.	us?	Participation	clarify the meaning of
Internet	preferences.	us.	Teacher	unknown words.
11110111101		-Identify different types of	Observation	0.42 D.C.f. F. 1: 1.
	8.1.2.NI.1: Model and describe	technology (Computer,	0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.4.2.DC.5: Explain what
	how individuals use computers	Laptop, Chromebook,	Summative	a digital footprint is and
	to connect to other individuals,	Tablet, Ipad, Smartphone)	Assessment:	how it is created.
	places, information, and ideas	, ,	Parts of the	9.4.2.DC.6: Identify
	through a network.	-Turn computer/tablet on/off	Computer	respectful and responsible
	_	_	_	ways to communicate in
		-Learn how to Log into a		digital environments.
	8.1.2.NI.2: Describe how the	computer with	Benchmark	digital environments.
	Internet enables individuals to	assistance/independent	Assessment:	
	connect with others worldwide.		BOY Benchmark	
		-Navigate on a Ipad or		
		Chromebook	Accommodations	
			and Modifications	
		-Learn how to access		
		programs or apps		
		-Discuss what different		
		tasks technology offers such as the internet, how to		
		connect with others all over		
		the world.		
		the world.		
		-Identify and learn basic		
		computer vocabulary such		
		as: desktop, mouse,		
		keyboard, printer, tablet		
		Instructional Resources:		
		Kidpix		
		Brainpop Jr.		
		Teacher Technology:		

Internet places, information, and ideas through a network. -Use the internet to see examples of blogs -Use the internet to see examples of blogs -Compare and contrast -Use the internet to see examples of blogs -Compare and contrast -Use the internet to see examples of blogs -Compare and contrast -Compare and contrast -Use the internet to see examples of blogs -Compare and contrast -Compare and contrast	November/December Networks and the	8.1.2.NI.1: Model and describe how individuals use computers to connect to other individuals,	- Identify basic vocabulary: internet, email, text message, blog, facetime.	Formative Assessments: Classwork Student	Interdisciplinary Standard: RL.K.1 Students will examine
and connect with students in class. -Share the avatar with peers and describe why it represents the student. Instructional Resources: Kidpix Brainpop Jr. Voki - (Build you wild self; doppleme) ABCYA Teacher Technology: Computer Activ Panel Activ View YouTube Videos		places, information, and ideas through a network. 8.2.2.EC.1: Identify and compare technology used in different schools, communities,	examples of blogs -Compare and contrast different types of technology from around the world. -Make a class blog post about an event that happened at school.	Participation Teacher Observation Summative Assessments: Class blog or Student Vlog Student avatar	questions regarding the blog. I.E. Who is this Blog written for? Why write a blog? How did the Author
Kidpix Brainpop Jr. Voki - (Build you wild self; doppleme) ABCYA Teacher Technology: Computer Activ Panel Acitiv View YouTube Videos			and connect with students in class.-Share the avatar with peers and describe why it		
Computer Activ Panel Acitiv View YouTube Videos			Kidpix Brainpop Jr. Voki - (Build you wild self; doppleme) ABCYA		
Student Technology:			Computer Activ Panel Acitiv View YouTube Videos BrainPop Jr.		

January Ownership of content (print, nonprint)	8.1.2.D.1 Develop an understanding of ownership of print and non-print information	-Identify basic vocabulary: print, non-print, author -Identify author of print and no-print. -Identify authors of books by using the internet to look up answers Instructional Resources: 10 Black Dots Kidpix ABCYA Teacher Technology:	Formative Assessments: Classwork Student Participation Teacher Observation Summative Assessments: Differentiate between print and non-print Research an author	Interdisciplinary Standard (list and write blurb) SL.K.1.A. Students will discuss what they perceive to be differences between print and nonprint and which they prefer.
		10 Black Dots Kidpix ABCYA	Assessments: Differentiate between print and non-print	which they prefer.
		BrainPop Jr. Student Technology: Computer; iPad 10 Black Dots	did Wodiffedtons	

February Interaction of Technology and Humans 8.2.2.ITH.1: Identify products that are designed to meet human wants or needs. 8.2.2.ITH.2: Explain the purpose of a product and its value. 8.2.2.ETW.1: Classify products as resulting from nature or produced as a result of technology.	-Identify basic vocabulary: product, technology, nature -Match/Identify/Classify products to their source: Technology/ Nature -Discuss and explore different applications used to make visual posters -Make a poster with Kidpix and explain if it is nature based or technology based. Instructional Resources: Kidpix Teacher Technology: Computer Activ Panel Acitiv View YouTube Videos BrainPop Jr. Student Technology: Computer; iPad ABCYA! KidPix	Formative Assessments: Classwork Student Participation Teacher Observation Summative Assessments: Matching Technologies with Source Explain how the technologies are used to solve a problem and what problem they solve KidPix Poster Accommodations and Modifications	Interdisciplinary Standard: L 2.5a Identify real-life connections between words and their use.
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March and April Interaction of Technology and Humans	8.2.2.ITH.3: Identify how technology impacts or improves life. 8.2.2.ITH.4: Identify how various tools reduce work and improve daily tasks. 8.2.2.ITH.5: Design a solution to a problem affecting the community in a collaborative team and explain the intended impact of the solution.	-Review basic vocabulary: product, technology -Research and create a class commercial about a product that makes life easier at work, school and home. -Explain how technology improves life in a presentation or artwork Instructional Resources: Youtube (commercial examples) Kidpix	Formative Assessments: Classwork Student Participation Teacher Observation Assignment rubric or checklist Build a system project Summative Assessments: Commercial Project	Interdisciplinary Standard L 2.5a Identify real-life connections between words and their use.
		Teacher Technology: Computer Activ Panel Acitiv View YouTube Videos BrainPop Jr. Green Screen Student Technology: Computer; iPad ABCYA! KidPix	Accommodations and Modifications	

May/June	8.1.2.AP.4: Break down a task	-Students will work as	Formative	Interdisciplinary
-	into a sequence of steps.	individuals to explain a	Assessments:	Standard:
Algorithms and		simple task in sequential	Classwork	RL 2.5 Follow the
Programming	8.1.2.AP.3: Create programs	order: ex. tie your shoe	Student	
	with sequences and simple		Participation	overall structure of a
	loops to accomplish tasks.	-Students will work in teams	Teacher	story, including
		to explain a complex task	Observation	the beginning and the
				ending
		-Students will write a	Summative	by retelling the sequence
		programs for each other to	Assessments:	of a task.
		find a hidden toy. Students	Task Based Project	of a task.
		will interpret and follow as	(Student Choice)	
		"human robots."	Completed / graded	
			activity sheets	
		-Students will program the	activity sheets	
		Bee Bot to go to designated		
		locations.		
			Benchmark	
		-Students will program the	Assessment:	
		Bee Bot to draw	EOY Benchmark	
		shapes/pictrues		
			Accommodations	
			and Modifications	
		Instructional Resources:		
		YouTube videos		
		How to Books		
		Kodable		
		Dash Robot		
		Bee Bot Robot		
		Teacher Technology:		
		Computer		
		Activ Panel		
		Acitiv View		
		YouTube Videos		
		BrainPop Jr.		
		Green Screen		

Alternative Assessments: Creating a Class Blog/Vlog; Worksheets/Activities **21st Century Standards: 9.1.4.A.1**, **9.1.2.CR.1**

21st Century Skills: Technology literacy, Information literacy and Critical thinking

Career Ready Practices: CRP2, CRP 3 and CRP 6.