Kindergarten Science Curriculum Map 2022

Ī	Pacing Guide	Standard Code & Indicator	Sample Learning Activities	Sample Assessments	Additional
					Standards
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August-September	L 2 ETC1 1 Asla sussetions and leave	-How do you make an observation?	Formative	Interdisciplinary Standard: SL.K.1.A
Zariara in Denien	K-2-ETS1-1 Ask questions, make	E145	Assessments:	Students will
Engineering Design	observations, and gather information	-Explore the 5 senses.	Student Participation Classwork	participate in
	about a situation people want to change to define a simple problem	-Participate in observations to gather	Class discussions	discussions with peers
	that can be solved through the	information about a situation or a	Class discussions	about scientific
	development of a new or improved	problem	Summative	observations and
	object or tool.	problem	Assessments:	suggestions for
	object of tool.	-Based off of observations, create a	"My Solution" Planning	solution revisions
	K-2-ETS1-2 Develop a simple	solution.	& Reflection Page	
	sketch, drawing, or physical model to	Solution.	& Reflection 1 age	Tashnalagy
	illustrate how the shape of an object	-Ask questions in order to make	Benchmark:	Technology Standard:
	helps it function as needed to solve a	improvements on a solution.	BOY Benchmark	8.2.2.A.5 Collaborate
	given problem.			to design a solution to
		-Develop a model to identify how an		a problem affecting
	K-2-ETS1-3 Analyze data from tests	object can help solve a given problem	Accommodations and	the community.
	of two objects designed to solve the		Modifications	the community.
	same problem to compare the	-Collect and analyze data from testing		
	strengths and weaknesses of how	two objects ability to solve a problem		
	each performs.			
		-Discuss strengths/weaknesses of tests		
		-Brainstorm and implement change to		
		solutions based off of tests		
		-A situation that people want to		
		change or create can be		
		approached as a problem to be		
		solved through engineering.		
		sorved unough engineering.		
		-Ask questions, make observations,		
		and gather information about a		
		situation people want to change (e.g.,		
		climate change) to define a simple		
		problem that can be solved through		
		the development of a new or improved		
		object or tool.		

-Before beginning to design a

October-November	K-PS2-1. Plan and conduct an	Define: Push and Pull	Formative	Interdisciplinary
Motion and Stability Forces and Interactions	investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. K-PS2-2 Analyze data to determine if a design solution works as intended	Identify pushes and pulls in the environment around us Pushes and pulls can have different strengths and directions. Communicate using position words to	Assessments: Push and Pull- Car and Ramp Activity Position Words Sort Student Participation Classwork	Standard SL.K.3 Ask and answer questions in order to seek help, ge information, or clarif something that is not understood.
	to change the speed or direction of an object with a push or a pull	tell where objects are located.	Summative Assessment:	Technology
	Investigate how a push or pull can change how objects move.	Push and Pull Activities	Standard: 8.2.2.ED.2:	
		Pushing or pulling on an object can change the speed or direction of its motion and can start or stop it.	Accommodations and Modifications	Collaborate to solve a simple problem, or to illustrate how to build
		Compare objects by how fast they move.		a product using the design process.
		Investigate effects of different strengths or different directions of pushes and pulls on the motion of an object.		
		Brainstorm, create and revise solutions to change the speed/direction of an object.		
		When objects touch or collide, they push on one another and can change motion.		
		A bigger push or pull makes things speed up or slow down more quickly.		
		Instructional Resources: National Geographic Science		
		Teacher Technology:		

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December-January	K-PS3-1 Make observations to	Observe the sun, moon, and clouds	Formative	Interdisciplinary
Energy	determine the effect of sunlight on	can be seen in the sky.	Assessments:	Standard:
Energy	Earth's surface. K-PS3-2 Use tools and materials to design and build a structure that will	Describe patterns that show where the sun is in the sky at different times of day.	Classwork Student Participation Weather Patterns Activity	8.1.2.DA.4: Make predictions based on data using charts or graphs.
	reduce the warming effect of sunlight on an area.	Communicate that the sun gives us light and can make us warm. Investigate: What melts in the sun? Brainstorm, create and revise a structure that reduce the warming effect of sunlight on an area	Summative Assessment: Sunlight Effect Planning & Reflection Page Accommodations and Modifications	Technology Standard: 8.1.2.DA.4: Make predictions based on data using charts or graphs.
		Instructional Resources: National Geographic Science		
		Teacher Technology: Actiview Promethean Board YouTube Videos BrainPopJr.		
		Student Technology: iPad Kahoot!		

February-March	K-ESS2-1 Use and share observations of local weather conditions to describe patterns over	Define weather being the combination of sunlight, wind, snow or rain, and temperature in a particular region at a	Formative Assessments: "Find that Shade"	Interdisciplinary Standard: W K.2 What's the Weather?
Earth Systems	time. K-ESS2-2 Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. K-ESS3-2 Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.	particular time. People measure these conditions to describe and record the weather and to notice patterns over time. Observe and record weather Identify and discuss: weather patterns Understand and practice: weather forecasting How can forecasting weather help us be prepared? Participate in Forecast Preparation Challenge Identify and explore: environmental needs of plants vs animals Discuss and list: ways animals/plants can change their environment Investigate how living things affect where they live	Weather Tracker Animal Adventure Activity Classwork Student Participation Summative Assessment: What's the Weather? Assessment Accommodations and Modifications	Technology Standard: 8.1.2.DA.4: Make predictions based on data using charts or graphs.
		Instructional Resources: National Geographic Science		
		Teacher Technology: Actiview Promethean Board YouTube Videos BrainPopJr.		
		Student Technology: iPad		

April-June	K-LS1-1 Use observations to	Classify non living things.	Formative	Interdisciplinary
From Molecules to Organisms: Structures and	describe patterns of what plants and animals (including humans) need to survive.	Obtain information about living things. Conduct investigations to describe the pattern of what plants need.	Assessments: Parts of a Plant Picture Sort Human Needs Activity Classwork	Standard: RL.K.1 With prompting and support, ask and answer questions
Processes Kenthe dia hu Kenthe dia	K-ESS3-1 Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. K-ESS3-3 Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.*	Provide evidence of what animals need. How do they obtain these needs? Create a model to represent the needs of an animal/plant and the place they live Explore and create solutions that can help the environment	Summative: Animal/Plant Presentation Benchmark: EOY Benchmark Accommodations and Modifications	about key details in a text Technology Standard: 8.1.2.DA.4: Make predictions based on data using charts or graphs.
		Instructional Resources: National Geographic Science		
		Teacher Technology: Actiview Promethean Board YouTube Videos BrainPopJr.		
	googamontas Mr. Novy Tovy Wooth or Drone	Student Technology: iPad Kahoot!		

Alternative Assessments: My New Toy; Weather Preparation Kit, Worksheets/Activities

21st Century Standards: 9.2.4.A.4, 9.2.4.A.3

21st Century Skills: Innovation, Communication, Creativity & Critical Thinking Career Ready Practices: CRP 2, CRP4