Third Grade Science Curriculum 2022

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

August/	3-5-ETS1-1 Define a simple design	Identify the types of questions	Formative	Interdisciplinary
September	problem reflecting a need or a want that	scientists ask and will apply this	Assessments:	Standard:
	includes specified criteria for success	knowledge to ask scientific	Quiz	RI.3.5 Read and
	and constraints on materials, time, or	questions.	Classwork	complete a chart on
	cost.		Teacher Observation	text features
Engineering		Observe, predict, measure,		
and Design		interpret data, and use other	Summative	
	3-5-ETS1-2 Generate and compare	process skills to plan and	Assessment:	Technology
	multiple possible solutions to a problem	conduct investigations.	Project/Lab	Standard:
	based on how well each is likely to meet		Egg Drop	8.2.5.ED.2:
	the criteria and constraints of the	Analyze how scientists use	Can You Hear Me?	Collaborate with
	problem.	experiments and conduct	Chapter Test	peers to collect
		investigations to answer	Benchmark	information,
	3-5-ETS1-3 Plan and carry out fair tests	questions.	Assessment:	brainstorm to solve a
	in which variables are controlled and	Conduct an investigation,	BOY Benchmark	problem, and evaluat
	failure points are considered to identify	gather information, and	DOT Deneminark	all possible solutions
	aspects of a model or prototype that can	communicate the results of the	Accommodations and	to provide the best
	be improved.	investigation to others.	Modifications	results with
	<u>r</u>			supporting sketches
		Communicate how scientists		or models.
		use tools and stay safe while		
		conducting investigations.		
		Identify design problems that		
		can be solved using technology.		
		Model to identify some simple		
		and complex machines and will		
		communicate how these		
		machines help people do work.		
		Communicate how to conduct		
		an investigation using the		
		design process.		
		Instructional Resources		
		National Geographic Science		

October/	3-PS2-1 Plan and conduct an	Explore: balanced vs	Formative	Interdisciplinary
November	investigation to provide evidence of the	unbalanced forces	Assessments:	Standard:
	effects of balanced and unbalanced		Quiz	3.MDA.1 Students
	forces on the motion of an object.	Plan for and carry out an	Classwork	will solve word
		investigation to prove the	Teacher Observation	problems to find an
	3-PS2-2 Make observations and/or	effects of balanced/unbalanced		object's speed
Motion and	measurements of an object's motion to	forces on the motion of an	Summative	o o jour o o pour
Stability:	provide evidence that a pattern can be	object	Assessment:	
Forces and	used to predict future motion.		Chapter Test	Technology
Interactions	2 DS2 2 Aslamatic national definition	Explore: patterns within motion	Solution Design	Standard:
	3-PS2-3 Ask questions to determine	Observe on object's metion to	A an annual dations and	8.2.5.ED.2:
	cause and effect relationships of electric or magnetic interactions between two	Observe an object's motion to identify evidence that its future	Accommodations and Modifications	Collaborate with
	objects not in contact with each other.	motion can be predicted	Woumcations	peers to collect
	objects not in contact with cach other.	motion can be predicted		information,
	3-PS2-4 Define a simple design	Observe and discuss: an item at		brainstorm to solve a
	problem that can be solved by applying	rest		problem, and evaluate
	scientific ideas about magnets.			all possible solutions
		Define, identify and explore :		to provide the best
		electric and magnetic forces		results with
				supporting sketches or models.
		Explore, identify and predict		of models.
		cause/effect relationships		
		Understand that the size of the		
		forces depend on the properties		
		of the objects and their distances apart		
		Design a solution that can help		
		solve a problem using magnets		
		Instructional Resources		
		National Geographic Science		
		Student Technology:		
		Google Classroom		
		Chromebook/ IPad		

December	3-LS1-1 Develop models to describe	Classify plants into major	Formative	Interdisciplinary
	that organisms have unique and diverse	groups, such as flowering and	Assessments:	Standard:
	life cycles but all have in common birth,	nonflowering plants, based on	Plants Quiz	W 3.2 Students will
T	growth, reproduction, and death.	physical characteristics.	Classwork	write to describe how
From			Teacher Observation	plants change during
Molecules to		Develop models that describe		their lifestyle using
Organisms:		how leaves help plants in their	Summative	academic vocabulary
Structures and		life cycles.	Assessment: Project/Labs	and transitions
Processes		Use models that describe how	Chapter Test	
110003505		roots and stems help plants in	Life Cycle Writing	
		their life cycles.		Technology
			Accommodations and	Standard:
		Communicate how plants	Modifications	8.2.5.ED.2:
		reproduce using seeds and		Collaborate with
		cones.		peers to collect
				information,
		Develop and use models to		brainstorm to solve a
		describe how plants change		problem, and evaluate
		during their life cycles.		all possible solutions
				to provide the best
				results with
		Instructional Resources		supporting sketches or models.
		National Geographic Science		or models.
		Student Technology:		
		Google Classroom		
		Chromebook/ IPad		
		Teacher Technology:		
		Promethean Board/Activ Panel		
		YouTube Videos		
		ActiView		
		Scholastic		
		BrainPop		
		Bill Nye Video		
		Dill Nye video		

January		Classify animals into major		
-	3-LS3-1 Analyze and interpret data to	groups based on inherited traits	Formative	Interdisciplinary
	provide evidence that plants and	and behavior.	Assessments:	Standard:
	animals have traits inherited from		Traits Quiz	RI 3.1 Students will
Heredity:	parents and that variation of these traits	Use observations and evidence	Classwork	conduct research on
Inheritance	exists in a group of similar organisms.	to explain that some traits are	Teacher Observation	plants/animals and
and Variation		inherited and some traits are		their traits
of Traits	3-LS3-2 Use evidence to support the	learned or acquired.	Summative	
	explanation that traits can be influenced	_	Assessment:	Technology
	by the environment.	Develop and use models to	Project/Labs	Standard:
		describe how some animals	Chapter Test	8.2.5.ED.2:
		grow and change during their	Completed research	Collaborate with
		life cycles		peers to collect
			Accommodations and	information,
		Research to provide evidence	Modifications	brainstorm to solve a
		that traits can be influenced by		problem, and evaluate
		the environment		all possible solutions
				to provide the best
				results with
		Instructional Resources		supporting sketches
		National Geographic Science		or models.
		Student Technology:		
		Google Classroom		
		Chromebook/ IPad		
		Teacher Technology:		
		Promethean Board/Activ Panel		
		YouTube Videos		
		ActiView		
		Scholastic		
		BrainPop		
		Bill Nye Video		

February	3-LS2-1 Construct an argument that	Analyze how living and	Formative	Interdisciplinary
	some animals form groups that help	nonliving things interact within	Assessments:	Standard:
	members survive.	an ecosystem.	Quiz	W 3.2 Students write
Ecosystems:			Classwork	an informative
Interactions,		Determine why animals form	Teacher Observation	paragraph on animal
Energy,		groups		groups and their
Dynamics			Summative	purpose
		Research and present on animal	Assessment:	
		groups that form groups	Project/Labs	
			Chapter Test	
				Technology
		Instructional Resources	Accommodations and	Standard:
		National Geographic Science	Modifications	8.1.5.DA.3: Organize
				and present collected
				data visually to
		Student Technology:		communicate insights
		Google Classroom		gained from different
		Chromebook/ IPad		views of the data.
		Teacher Technology:		
		Promethean Board/Activ Panel		
		YouTube Videos		
		ActiView		
		Scholastic		
		<u>BrainPop</u>		
		Bill Nye Video		

March-	3-LS4-1 Analyze and interpret data	Examine and explore: fossils	Formative	Interdisciplinary
April	from fossils to provide evidence of the		Assessments:	Standard:
	organisms and the environments in	Identify information that fossils	Fossils Quiz	L 3.2D When writing
	which they lived long ago.	can provide us	Classwork	about a plant/animal'
			Teacher Observation	traits, students will
Biological	3-LS4-2 Use evidence to construct an	Collect and analyze data from		correctly use
Evolution	explanation for how the variations in	fossils in regards to the	Summative	possessives
Unity and	characteristics among individuals of the	environment in which they	Assessment:	
Diversity	same species may provide advantages in	lived.	Project/Labs	
	surviving, finding mates, and		Species Creation	
	reproducing.	Determine cause/effect		Technology
		relationships between plants or	Accommodations and	Standard:
	3-LS4-3 Construct an argument with	animals and their ability to	Modifications	8.1.5.DA.1: Collect,
	evidence that in a particular habitat	survive		organize, and display
	some organisms can survive well, some			data in order to
	survive less well, and some cannot	Research plants/animals and the		highlight
	survive at all.	characteristics that allow them		relationships or
		to survive		support a claim.
	3-LS4-4 Make a claim about the merit			
	of a solution to a problem caused when	Create own species of a		
	the environment changes and the types	plant/animal fit to survive in		
	of plants and animals that live there may change.	their provided environment		
		Identify common		
		environmental changes due to		
		climate change		
		Analyze climate changes and its		
		impact on plants and animals		
		Predict impact on a		
		plant/animal due to climate		
		change		
		Design an solution to help		
		overcome identified impact		

May-	3-ESS2-1 Represent data in tables and	Identify typical weather	Formative	Interdisciplinary
June	graphical displays to describe typical	conditions that occur during a	Assessments:	Standard:
	weather conditions expected during a	particular season	Quiz	Math MD B3 After
Earth's	particular season.		Classwork	gathering data on
Systems and		Examine and use tools that	Teacher Observation	weather, students will
Earth and	3-ESS2-2 Obtain and combine	measure weather conditions.		create a graph.
Human	information to describe climates in		Summative	
Activity	different regions of the world.	Gather weather data on an	Assessment:	Technology
		identified season in a different	Project/Labs	Standard:
	3-ESS2-1 Make a claim about the merit	region in a table and display it	Chapter Test	8.1.5.DA.1: Collect,
	of a design solution that reduces the	using a graph		organize, and display
	impacts of a weather-related hazard.		Accommodations and	data in order to
		Compare/contrast graphs within	Modifications	highlight
		the same season		relationships or
		Using data madiat weather		support a claim.
		Using data, predict weather		
		patterns for a particular region		
		Design and construct a solution		
		to stop the impact of severe		
		weather		
		Instructional Resources		
		National Geographic Science		
		Student Technology:		
		Google Classroom		
		Chromebook/ IPad		
		Teacher Technology:		
		Promethean Board/Activ Panel		
		YouTube Videos		
		ActiView		
		Scholastic		
		BrainPop		
		_		
		Bill Nye Video		

Alternate Assessments: Designing a solution to help overcome climate impact; Magnetic solution, Worksheets/Activities.
21st Century Standards: 9.2.4.A.3 & 9.2.4.A.4
21st Century Skills: Critical Thinking, Collaboration & Technology Literacy
Career Ready Practices: CRP1 & CRP5