## Second Grade Science Curriculum 2022

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

August-	K-2-ETS1-1 Ask questions, make	Construct an argument for why	Formative	Interdisciplinary
September	observations, and gather information	investigations should be	Assessments:	Standard:
Enginganing	about a situation people want to change to define a simple problem that	repeated.	Classwork Journal Entries	SL 2.1 Students will
Engineering Design	can be solved through the development	Identify and explore problems	Teacher Observation	participate in scientific discussions based on
Design	of a new or improved object or tool.	in which people want to	Teacher Observation	observations, questions an
	of a new of improved object of tool.	change/solve	Summative	data analysis.
	K-2-ETS1-2 Develop a simple sketch,	enunge, serve	Assessments:	
	drawing, or physical model to illustrate	Ask questions and make	STEM Project	
	how the shape of an object helps it	observations in order to gather	-	Technology Standard:
	function as needed to solve a given	information about a problem		8.2.2.ED.2: Collaborate to
	problem.		Benchmark	solve a simple problem, or
		Brainstorm and develop a plan	Assessment:	to illustrate how to build a
		to create a solution for a	BOY Benchmark	product using the design
	K-2-ETS1-3 Analyze data from tests	problem	Aggammodations	process.
	of two objects designed to solve the	Discuss reasons	Accommodations and Modifications	
	same problem to compare the strengths	materials/objects were chosen	and Mounications	
	and weaknesses of how each performs.	as part of the solution		
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		Communicate solutions for		
		recording and showing data		
		Determine ways to make a		
		solution more effective		
		Observe and model the process		
		people use to design new		
		things.		
		Instructional Resources:		
		National Geographic Science		
		Teacher Technology:		
		ActivPanel		
		YouTube video		
		D i D I		

Brain Pop Jr.
Actiview Camera
Flip Charts
Science Kids

October-	2-PS1-1 Plan and conduct an	Carry out investigations to	Formative	Interdisciplinary
December	investigation to describe and classify	observe the properties of	Assessments:	Standard:
	different kinds of materials by their	matter.	Classwork	W.2.1: Writing an opinio
Matter and Its	observable properties.		Journal Entries	about Oobleck.
Interactions		Analyze the properties of	Teacher Observation	
	2 DC1 2 A 1 1 1 1 1 1 1 C	solids, liquids, and gasses.		Technology Standard:
	2-PS1-2 Analyze data obtained from		Summative	8.1.2.DA.4: Make
	testing different materials to determine	Investigate ways that matter	Assessments:	predictions.
	which materials have the properties	can be changed.	STEM Project	
	that are best suited for an intended			
	purpose.	Observe and classify water in		
		its solid, liquid, and gaseous	<b>Accommodations</b>	
		states and compare volume	and Modifications	
	<b>2-PS1-3</b> Make observations to	and temperature.		
	construct an evidence-based account of			
	how an object made of a small set of	Observe that materials have		
	pieces can be disassembled and made	different properties and		
	into a new object.	provide evidence that		
		materials can be combined to		
		form different things.		
	<b>2-PS1-4</b> Construct an argument with			
	evidence that some changes caused by	Discuss and explore ways		
	heating or cooling can be reversed and	heating/cooling can change a		
	some cannot.	piece of matter		
		Instructional Resources:		
		National Geographic Science		
		Teacher Technology:		
		ActivPanel		
		YouTube video		
		Brain Pop Jr.		
		Actiview Camera		
		Flip Charts		
		<b>States of Matter Video</b>		
		Science Kids		
		Student Technology:		
		iPads		
		Brain Pop games		

January-	<b>2-ESS1-1</b> Use information from	Compare and contrast	Formative	Interdisciplinary
March	several sources to provide evidence	landforms and bodies of water.	Assessments:	Standard: RI.2.9 Compare
	that Earth events can occur quickly or		Classwork	and contrast two books
Earth's Place	slowly.	Investigate how changes on	Journal Entries	about landforms.
in the		Earth can occur quickly or	Teacher Observation	
Universe and		slowly.		Technology Standard:
Earth's	<b>2-ESS2-1</b> Compare multiple solutions		Summative	8.2.2.NT.1: Model and
System	designed to slow or prevent wind or	Explore Earth events such as	Assessments:	explain land/bodies of
	water from changing the shape of the	volcanic explosions and	STEM Project	water.
	land.	earthquakes.		
			<b>Accommodations</b>	
		Create a solution to	and Modifications	
	2-ESS2-2 Develop a model to	solve/prevent wind or water		
	represent the shapes and kinds of land	from changing the land		
	and bodies of water in an area.			
	and bodies of water in an area.	Compare class solutions to		
		determine effectiveness		
	2-ESS2-3 Obtain information to			
	identify where water is found on Earth	Create a model to show		
	and that it can be solid or liquid.	land/bodies of water		
	and that it can be solid of figure.	361		
		Make a model of fossils to		
		help explain how fossils		
		provide evidence of change		
		over time.		
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		Instructional Resources:		
	!	National Geographic Science		
		Student Technology:		
		iPads		
		Brain Pop games		
		Quizlet		
		Quiziet		
		Teacher Technology:		
		ActivPanel		
		YouTube video		
		Brain Pop Jr.		
		Google Earth		
		Actiview Camera		
		Flip Charts		
		Science Kids		

April-June	2-LS4-1 Make observations of plants	Classify the different parts of	Formative	Interdisciplinary
	and animals to compare the diversity	plants.	Assessments:	Standard: Math MD.A.1
Ecosystems:	of life in different habitats.		Classwork	Students will measure the
Interactions,		Observe how animal groups	Journal Entries	growth of a seed during
Energy and		are alike and different.	Teacher Observation	sun/water needs experimen
Dynamics	2-LS2-1 Plan and conduct an	N(-11-1111	C	Taskasala Ctasala da
	investigation to determine if plants	Make models of animal parts	Summative	Technology Standard:
	need sunlight and water to grow.	and will investigate how animals use body parts to meet	Assessments:	8.2.2.NT.1: Model and
		their needs.	STEM Project	explain the growth of a seed.
		then needs.	Benchmark:	seed.
	<b>2-LS2-2</b> Develop a simple model that	Provide evidence that plants	EOY Assessment	
	mimics the function of an animal in	and animals live in habitats	LOT Assessment	
	dispersing seeds or pollinating plants.	that meet their needs.	Accommodations	
		that meet then needs.	and Modifications	
		Create an experiment to		
		observe if plants need		
		sun/water to grow		
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		Obtain information about how		
		a food chain works.		
		Plan and design a model to		
		show how an animal can		
		disperse seeds		
		T 4 4: 1B		
		Instructional Resources:		
		National Geographic Science		
		Teacher Technology:		
		ActivPanel		
		YouTube video		
		Brain Pop Jr.		
		Actiview Camera		
		Flip Charts		
		Science Kids		
		<b>Student Technology:</b>		
		iPads		
		Brain Pop games		
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Quizlet

## Second Grade Science Curriculum 2022

Alternative Assessments: Bridge Design Project & Landform Creation, Worksheets and Activities

**21st Century Standards:** 9.2.4.A.1, 9.2.4.A.2

21st Century Skills: Communication, Collaboration, Creativity

Career Ready Practices: CRP 2, CRP 5, CRP6, CRP8