



## Grade 2 Next Generation Science Standards Course Pacing Guide

*Narrative and Rationale:* The topic model in Grade 2 is divided into three bundles that build in complexity in terms of both disciplinary and crosscutting content, as well as the application of science and engineering practices across the year.

In Bundle 1, students can examine patterns of where water is found on the Earth in both solid and liquid forms, and patterns of where different kinds of plants and animals live on the land and in the water. In Bundle 2, students can examine how the land can change slowly or quickly by wind or water, and how different design solutions can affect these changes. In Bundle 3, students can explore the needs of plants and how animals and designed solutions can help meet plants' needs.

Note that the practices and crosscutting concepts included in each bundle are intended as end-of-instructional unit expectations and not curricular designations. Additional practices and crosscutting concepts should be used throughout instruction in each bundle.

<b>Michigan Model</b> Social and Emotional Health Safety	Bundle 1 Water	Bundle 2 Changes to Land	Bundle 3 The Needs of Plants
~ 2 weeks	~12 weeks	~ 12 weeks	~10 weeks
Resources:	Pearson Resources	Pearson Resources	Pearson Resources
MI Model <u>http://www.spsd.net/wp-</u> <u>content/uploads/2018/03/SEX-ED-</u> <u>NEWSLETTER.pdf</u>	Chapter 1	Chapter 3	Chapter 2
Health Education	Bundle Question	Bundle Question	Bundle Question
What health habits and skills should we be practicing?	What patterns related to water exist in the natural world?	Why does the land change over time?	What do plants need?



Social/Emotional	NGSS Standards	NGSS Standards	NGSS Standards
Sept/Oct:	<b>2-PS1-1.</b> Plan and conduct an investigation	<b>2-PS1-2.</b> Analyze data obtained from	<b>2-LS2-1.</b> Plan and conduct an investigation
Lesson #3	to describe and classify different kinds of	testing different materials to determine	to determine if plants need sunlight and
Lesson #4	materials by their observable properties.	which materials have the properties that	water to grow.
		are best suited for an intended purpose.	
Safety	<b>2-PS1-4.</b> Construct an argument with		<b>2-LS2-2.</b> Develop a simple model that
Feb/March:	evidence that some changes caused by	2-PS1-3. Make observations to construct	mimics the function of an animal in
Lesson #4	heating or cooling can be reversed and	an evidence-based account of how an	dispersing seeds or pollinating plants.
Lesson #5	some cannot.	object made of a small set of pieces can	
		be disassembled and made into a new	2-LS4-1. Make observations of plants and
For specific standards please refer to	<b>2-ESS2-2.</b> Develop a model to represent	object.	animals to compare the diversity of life in
the Michigan Model for Health	the state of Michigan and the Great Lakes,		different habitats.
Manual Grade 2	or a more local area and body of water.	2-ESS1-1. Use information from several	
		sources to provide evidence that Earth	K-2-ETS1-2. Develop a simple sketch,
	2-ESS2-3. Obtain information to identify	events can occur quickly or slowly.	drawing, or physical model to illustrate
	where fresh water is found on Earth		how the shape of an object helps it
	including the Great Lakes and the Great	2-ESS2-1. Compare multiple solutions	function as needed to solve a given
	Lakes Basin.	designed to slow or prevent wind or water	problem.
		from changing the shape of the land.	
	K-2-ETS1-1. Ask questions, make		
	observations, and gather information	2-ESS2-2. Develop a model to represent	
	about a situation people want to change	the state of Michigan and the Great Lakes,	
	to define a simple problem that can be	or a more local area and body of water.	
	solved through the development of a new		
	or improved object or tool.	K-2-ETS1-3. Analyze data from tests of	
		two objects designed to solve the same	
		problem to compare the strengths and	
		weaknesses of how each performs.	