

Hopkins County Schools  
 Grade 2  
 NGSS Pacing Guide & Curriculum Map

Marking Period	NGSS Disciplinary Core Ideas	Science Lesson Chapter & Title	Essential Question	I Can...	Key Vocabulary
<b>1<sup>st</sup> Trimester</b>  <b>(Life Science)</b>	LS1.A Structure and Function LS4.D Biodiversity and Humans	Chapter 11, Over in the Ocean (MPPS)	How do animals survive in different habitats?	I can make observations and describe organisms that are found within the coral reef.	Habitat Organism Coral reef Plant Animal Ocean Fins Adaptation
	LS1.C Organization for Matter and Energy Flow in Organisms ESS3.A Natural Resources ESS3.C Human Impacts on Earth Systems LS1.A Structure and Function LS2.A Interdependent Relationships in Ecosystems	Chapter 12, Be a Friend to Trees (MPPS)	Why are trees important?	I can explain the importance of trees and describe ways to conserve them.	Resources Conserve Oxygen Recycle Produce Carbon-dioxide
	LS4.D Biodiversity and Humans	Chapter 20, A Sense of Wonder (MPPS)	How do humans affect the natural world?	I can explain how humans affect the natural environment in harmful and unharmful ways.	Environment Observations Nonliving Living Organisms
	LS2.A Interdependent Relationships in Ecosystems	Chapter 12, Seeds on the Move (EMPPS)	What are the parts of a plant that help it grow, survive, and produce?	I can label the parts of a plant.	Root Stem Leaves Flower

Hopkins County Schools  
 Grade 2  
 NGSS Pacing Guide & Curriculum Map

			How do plants spread their seeds?	I can describe ways that plants spread their seeds.	Fruits Pollen Seed Seedlings Embryo
	Science and Engineering Practice 4: Analyzing and Interpreting Data	Chapter 8, Hear Your Heart (MPPS)	How can I stay healthy?	I can explain ways to stay healthy.	Heart Rate/Pulse Exercise Cardiovascular Stethoscope
	ETS1.A Defining and Delimiting an engineering Problem ETS1.B Developing possible Solutions ETS1.C Optimizing the Design Solution	Chapter 19, Imaginative Inventions (MPPS)	How did people design products to solve problems?	I can design a product and explain how it will help others.	Engineer Inspector Invention Design
<b>2nd Trimester (Earth Science)</b>	ESS2.A Earth Materials and Systems	<a href="http://betterlesson.com/lesson/632923/how-can-wind-change-the-shape-of-the-land">http://betterlesson.com/lesson/632923/how-can-wind-change-the-shape-of-the-land</a>	How can wind change the shape of the land?	I can explain how wind changes the shape of the land.	Quickly Slowly Weathering Erosion Land Formation
	ESS2.A Earth Materials and Systems		How can water change the shape of the land?	I can explain how water changes the shape of the land.	Quickly Slowly Weathering

Hopkins County Schools  
 Grade 2  
 NGSS Pacing Guide & Curriculum Map

		<a href="http://betterlesson.com/lesson/639991/how-can-water-change-the-shape-of-the-land">http://betterlesson.com/lesson/639991/how-can-water-change-the-shape-of-the-land</a>			Erosion Land Formation
	ESS2.B Plate Tectonics and Large-Scale System Interactions	<a href="http://pmm.nasa.gov/education/sites/default/files/lesson_plan_files/LandformsTG.pdf">http://pmm.nasa.gov/education/sites/default/files/lesson_plan_files/LandformsTG.pdf</a>  <a href="http://www.makemegenius.com/science-videos/grade_2/what-are-landforms-for-kids">http://www.makemegenius.com/science-videos/grade_2/what-are-landforms-for-kids</a>	How are land and water represented on models of the Earth?	I can develop a model to show land and water.	Land Form Continent Water Oceans Rivers Lakes Globe Map Model
	ESS2.C The Roles of Water in Earth's Surface Processes	<a href="http://betterlesson.com/lesson/635801/where-is-water-found-on-earth">http://betterlesson.com/lesson/635801/where-is-water-found-on-earth</a>	Where is water found on Earth? How does water change?	I can identify where water is found on earth. I can explain how water changes.	Ocean River Lake Pond Iceberg Glacier Solid Liquid
	ESS1.C The History of Planet Earth	Chapter 16, Fossils Tell of Long Ago (EMPPS)	What can fossils tell us about the history of the Earth?	I can explain how fossils help us to learn about the history of the Earth.	Fossil Paleontologist Prehistoric Organisms Environment

Hopkins County Schools  
 Grade 2  
 NGSS Pacing Guide & Curriculum Map

<b>3rd Trimester</b>  <b>(Physical Science)</b>	PS1.A Structure and Properties of Matter PS2.B Types of Interactions	Chapter 13, Magnetic Dog (MPPS)	What types of objects are attracted to magnets?	I can explain the properties of objects that attract to magnets.	Attract Repel Properties Metal Magnetism Poles Magnetic field
	PS1.A Structure and Properties of Matter PS1.B Chemical Reactions	Chapter 6, Freezing and Melting (EMPPS)	What are some different kinds of matter? How does temperature change the forms of matter?	I can describe the different kinds of matter. I can observe the changes that occur in matter when it is heated or cooled.	Solid Liquid Freezing Melting Reverse Reversible change