

**Chicago Ridge District 127.5
2nd Science Scope and Sequence**

Unit	Disciplinary Core Ideas	Performance Expectations	SEP	CCC
<p><u>Interdependent Relationships in Ecosystems</u></p> <p><u>Unit 1 Plant and Animal Survival</u></p> <p>Chapter 1 <u>What Kinds of Living Things Are There?</u></p> <p>Chapter 2 <u>What Do Animals and Plants Need to Survive?</u></p> <p>Chapter 3 <u>How Do Plants and Animals Depend on Each Other?</u></p> <p>Chapter 4 <u>Why Do Plants and Animals Live in Some Places and Not Others?</u></p> <p>Chapter 5 <u>How Do Plants and Animals Survive in a Rainforest?</u></p> <p>Chapter 6 <u>How Do Plants and Animals Survive in a Desert?</u></p>	<p>LS2.A: Interdependent Relationships in Ecosystems <u>(2-LS2-1)</u> <u>(2-LS2-2)</u></p> <p>LS4.D: Biodiversity and Humans <u>(2-LS4-1)</u></p> <p>ETS1.B: Developing Possible Solutions Secondary to <u>(2-LS2-2)</u></p>	<p>Plan and conduct an investigation to determine if plants need sunlight and water to grow. <u>2-LS2-1</u></p> <p>Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants. <u>2-LS2-2</u></p> <p>Make observations of plants and animals to compare the diversity of life in different habitats. <u>2-LS4-1</u></p>	<p>Developing and Using Models <u>(2-LS2-2)</u></p> <p>Planning and Carrying Out Investigations <u>(2-LS2-1)</u> <u>(2-LS4-1)</u></p> <p>Connections to Nature of Science</p> <p>Science Knowledge Is Based on Empirical Evidence <u>(2-LS4-1)</u></p>	<p>Cause and Effect <u>(2-LS2-1)</u></p> <p>Structure and Function <u>(2-LS2-2)</u></p>

<p>Chapter 7 <u>How Do Plants and Animals Survive in a Pond?</u></p> <p>Chapter 8 <u>How Do Plants and Animals Survive in the Ocean?</u></p>				
Unit	Disciplinary Core Ideas	Performance Expectations	SEP	CCC
<p><u>Structure and Properties of Matter</u></p> <p>Unit 2 Materials and Their Uses</p> <p>Chapter 1 <u>What Is Everything Made Of?</u></p> <p>Chapter 2 <u>How Are Liquids and Solids Different?</u></p> <p>Chapter 3 <u>How Are Materials Used for Different Purposes?</u></p> <p>Chapter 4 <u>How Can Materials Be Reused?</u></p> <p>Chapter 5 <u>What Happens When Materials Are Mixed?</u></p>	<p>PS1.A: Structure and Properties of Matter <u>(2-PS1-1) (2-PS1-2), (2-PS1-3) (2-PS1-3)</u></p> <p>PS1.B: Chemical Reactions <u>(2-PS1-4)</u></p>	<p>Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. <u>2-PS1-1</u></p> <p>Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. <u>2-PS1-2</u></p> <p>Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object. <u>2-PS1-3</u></p> <p>Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. <u>2-PS1-4</u></p>	<p>Planning and Carrying Out Investigations <u>(2-PS1-1)</u></p> <p>Analyzing and Interpreting Data <u>(2-PS1-2)</u></p> <p>Constructing Explanations and Designing Solutions <u>(2-PS1-3)</u></p> <p>Engaging in Argument from Evidence <u>(2-PS1-4)</u></p> <p>Connections to Nature of Science</p> <p>Science Models, Laws, Mechanisms, and Theories Explain Natural Phenomena <u>(2-PS1-4)</u></p>	<p>Patterns <u>(2-PS1-1)</u></p> <p>Cause and Effect <u>(2-PS1-2), (2-PS1-4)</u></p> <p>Energy and Matter <u>(2-PS1-3)</u></p> <p>Connections to Engineering, Technology, and Applications of Science</p> <p>Influence of Science, Engineering, and Technology on Society and the Natural World <u>(2-PS1-2)</u></p>

Chapter 6 <u>What Happens When Materials Are Heated or Cooled?</u>				
Unit	Disciplinary Core Ideas	Performance Expectations	SEP	CCC
<u>Earth's Systems: Processes That Shape the Earth</u> Unit 3 Earth's Surface Chapter 1 <u>What Is on Earth's Surface?</u> Chapter 2 <u>What Kinds of Land and Water Are Found on Earth?</u> Chapter 3 <u>How Do Maps Show Land and Water?</u> Chapter 4 <u>How Does Earth's Surface Change?</u> Chapter 5 <u>How Do Earthquakes and Volcanoes Change the Land?</u> Chapter 6 <u>How Do Wind and Water Change the Land?</u> Chapter 7	ESS1.C: The History of Planet Earth (2-ESS1-1) ESS2.A: Earth Materials and Systems(2-ESS2-1) ESS2.B: Plate Tectonics and Large-Scale System Interactions (2-ESS2-2) ESS2.C: The Roles of Water in Earth's Surface Processes (2-ESS2-3) ETS1.C: Optimizing the Design Solution (secondary to 2-ESS2-1)	Use information from several sources to provide evidence that Earth events can occur quickly or slowly. <u>2-ESS1-1</u> Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land. <u>2-ESS2-1</u> Develop a model to represent the shapes and kinds of land and bodies of water in an area. <u>2-ESS2-2</u> Obtain information to identify where water is found on Earth and that it can be solid or liquid. <u>2-ESS2-3</u>	Developing and Using Models (2-ESS2-2) Constructing Explanations and Designing Solutions (2-ESS1-1) (2-ESS2-1) Obtaining, Evaluating, and Communicating Information (2-ESS2-3)	Patterns (2-ESS2-2), (2-ESS2-3) Stability and Change (2-ESS1-1), (2-ESS2-1) Connections to Engineering, Technology, and Applications of Science Influence of Science, Engineering, and Technology on Society and the Natural World (2-ESS2-1) Connections to Nature of Science Science Addresses Questions About the Natural and Material World (2-ESS2-1)

How Can Problems Caused
by Wind and Water Be
Solved?

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