

**Chicago Ridge District 127.5
1st Science Scope and Sequence**

Unit	Disciplinary Core Ideas	Performance Expectations	SEP	CCC
<p><u>Structure, Function and Information Processing</u></p> <p><u>Unit 1 Plant and Animal Parts</u></p> <p>Chapter 1 <u>How Are Plants and Animals Like Others of the Same Kind?</u></p> <p>Chapter 2 <u>How Are Plants and Animals Like Their Parents?</u></p> <p>Chapter 3 <u>What Different Parts Do Plants Have?</u></p> <p>Chapter 4 <u>What Different Parts Do Animals Have?</u></p> <p>Chapter 5 <u>How Do Plants and Animals Sense Thing?</u></p> <p>Chapter 6 <u>How Do Plants and Animals Take in Water, Food, Air, and Light?</u></p>	<p>LS1.A: Structure and Function (1-LS1-1)</p> <p>LS1.B: Growth and Development of Organisms(1-LS1-2)</p> <p>LS1.D: Information Processing(1-LS1-1)</p> <p>LS3.A: Inheritance of Traits(1-LS3-1)</p> <p>LS3.B: Variation of Traits(1-LS3-1)</p>	<p>Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. <u>1-LS1-1</u></p> <p>Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. <u>1-LS1-2</u></p> <p>Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. <u>1-LS3-1</u></p>	<p>Constructing Explanations and Designing Solutions(1-LS1-1)</p> <p>Obtaining, Evaluating, and Communicating Information(1-LS1-2)</p> <p>Connections to Nature of Science</p> <p>Science Knowledge Is Based on Empirical Evidence(1-LS1-2)</p>	<p>Patterns (1-LS1-2), (1-LS3-1)</p> <p>Structure and Function (1-LS1-1)</p> <p>Connections to Engineering, Technology, and Applications of Science</p> <p>Influence of Science, Engineering, and Technology on Society and the Natural World(1-LS1-1)</p>

<p>Chapter 7 <u>How Do Plants and Animals Stay Safe?</u></p> <p>Chapter 8 <u>How Do Young Plants and Animals Stay Safe?</u></p>				
Unit	Disciplinary Core Ideas	Performance Expectations	SEP	CCC
<p><u>Waves: Light and Sound</u></p> <p><u>Unit 2 Light and Sound</u></p> <p>Chapter 1 <u>How Does Light Help You See?</u></p> <p>Chapter 2 <u>How Does Light Travel?</u></p> <p>Chapter 3 <u>How Are Shadows Made?</u></p> <p>Chapter 4 <u>How is Sound Made?</u></p> <p>Chapter 5 <u>How Does Sound Travel?</u></p> <p>Chapter 6</p>	<p>PS4.A: Wave Properties_ <u>(1-PS4-1)</u></p> <p>PS4.B: Electromagnetic Radiation<u>(1-PS4-3)</u></p> <p>PS4.C: Information Technologies and Instrumentation<u>(1-PS4-4)</u></p>	<p>Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. <u>1-PS4-1</u></p> <p>Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated. <u>1-PS4-2</u></p> <p>Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light. <u>1-PS4-3</u></p> <p>Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. <u>1-PS4-4</u></p>	<p>Planning and Carrying Out Investigations<u>(1-PS4-1)</u> <u>(1-PS4-3)</u></p> <p>Constructing Explanations and Designing Solutions<u>(1-PS4-2)</u><u>(1-PS4-4)</u></p> <p>Connections to Nature of Science <u>(1-PS4-1)</u> <u>(1-PS4-1)</u></p>	<p>Cause and Effect <u>(1-PS4-1), (1-PS4-2), (1-PS4-3)</u></p> <p>Connections to Engineering, Technology, and Applications of Science <u>(1-PS4-4)</u></p>

<p><u>How Do People Use Light and Sound to Send Messages?</u></p>				
<p>Unit</p>	<p>Disciplinary Core Ideas</p>	<p>Performance Expectations</p>	<p>SEP</p>	<p>CCC</p>
<p><u>Space Systems: Patterns and Cycles</u></p> <p><u>Unit 3 Sky Patterns</u></p> <p>Chapter 1 <u>What Do You See in the Sky?</u></p> <p>Chapter 2 <u>Where Is the Sun in the Sky?</u></p> <p>Chapter 3 <u>How Long Is the Sun in the Sky?</u></p> <p>Chapter 4 <u>Where Is the Moon in the Sky?</u></p> <p>Chapter 5 <u>Where Are the Stars in the Sky?</u></p>	<p>ESS1.A: The Universe and Its Stars(1-ESS1-1)</p> <p>ESS1.B: Earth and the Solar System(1-ESS1-2)</p>	<p>Use observations of the sun, moon, and stars to describe patterns that can be predicted. <u>1-ESS1-1</u></p> <p>Make observations at different times of year to relate the amount of daylight to the time of year. <u>1-ESS1-2</u></p>		<p>Patterns (1-ESS1-1), (1-ESS1-2)</p> <p>Connections to Nature of Science</p> <p>Scientific Knowledge Assumes an Order and Consistency in Natural Systems(1-ESS1-1) (1-ESS1-1)</p>