

**Henry County Schools**  
**First Grade Science Scope and Sequence**

Co-Requisite Content Standard and Elements	Suggested Co-Requisite Characteristics of Science Standards and Elements	Lesson/Reading Support	Number of Weeks
	<p><b>S2CS1.</b> Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <ul style="list-style-type: none"> <li><b>a.</b> Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.</li> </ul> <p><b>S1CS3.</b> Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.</p> <ul style="list-style-type: none"> <li><b>a.</b> Use ordinary hand tools and instruments to construct, measure, and look at objects.</li> <li><b>c.</b> Identify and practice accepted safety procedures in manipulating science materials and equipment.</li> </ul> <p><b>S1CS6.</b> Students will be familiar with the character of scientific knowledge and how it is achieved.  Students will recognize that:</p> <ul style="list-style-type: none"> <li><b>a.</b> When a science investigation is done the way it was done before, we expect to get a similar result.</li> <li><b>b.</b> Science involves collecting data and testing hypotheses</li> <li><b>c.</b> Scientists often repeat experiments multiple times, and subject their ideas to criticism by other scientists who may disagree with them and do further tests.</li> <li><b>d.</b> All different kinds of people can be and are scientists.</li> </ul> <p><b>S1CS7.</b> Students will understand important features of the process of scientific inquiry.  Students will apply the following to inquiry learning practices:</p> <ul style="list-style-type: none"> <li><b>a.</b> Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.</li> <li><b>b.</b> In doing science, it is often helpful to work as a team. All team members should reach individual conclusions and share their understandings with other members of the team in order to develop a consensus.</li> </ul>	<p style="text-align: center;"><b>Classroom Expectations &amp; Procedures</b></p> <p style="text-align: center;"><b>Safety, Introduction to Science and Scientific Method</b></p>	<p style="text-align: center;"><b>4 weeks</b>  Aug 3 – Aug 28</p>

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<p><b>S1E1.</b> Students will observe, measure, and communicate weather data to see patterns in weather and climate.</p> <ul style="list-style-type: none"> <li>a. Identify different types of weather and the characteristics of each type.</li> <li>b. Investigate weather by observing, measuring with simple weather instruments (thermometer, wind vane, rain gauge), and recording weather data (temperature, precipitation, sky conditions, and weather events) in a periodic journal or on a calendar seasonally.</li> <li>c. Correlate weather data (temperature, precipitation, sky conditions, and weather events) to seasonal changes.</li> </ul> <p><b>Big Idea:</b> Patterns in Weather and Climate</p>	<p><b>S1CS1.</b> Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <ul style="list-style-type: none"> <li>a. Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.</li> </ul> <p><b>S1CS2.</b> Students will have the computation and estimation skills necessary for analyzing data and following scientific explanations.</p> <ul style="list-style-type: none"> <li>a. Use whole numbers in ordering, counting, identifying, measuring, and describing things and experiences.</li> <li>b. Readily give the sums and differences of single-digit numbers in ordinary, practical contexts and judge the reasonableness of the answer.</li> <li>c. Give rough estimates of numerical answers to problems before doing them formally.</li> <li>d. Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.</li> </ul> <p><b>S1CS3.</b> Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.</p> <ul style="list-style-type: none"> <li>a. Use ordinary hand tools and instruments to construct, measure, and look at objects.</li> <li>c. Identify and practice accepted safety procedures in manipulating science materials and equipment.</li> </ul> <p><b>S1CS4.</b> Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters.</p> <ul style="list-style-type: none"> <li>a. Use a model—such as a toy or a picture—to describe a feature of the primary thing.</li> <li>b. Describe changes in the size, weight, color, or movement of things, and note which of their other qualities remain the same during a specific change.</li> </ul>	<p><b>Weather and Climate</b></p> <p>(Unit A: Chapter 2)</p> <p><b>Below Level</b> Weather and the Seasons</p> <p><b>On-Level</b> Weather All Around</p> <p><b>Above-Level</b> Whatever the Weather</p>	<p><b>5 weeks</b>            Aug 31 – Sept 18            Sept 28 – Oct 9</p>

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	<p><b>S1CS5.</b> Students will communicate scientific ideas and activities clearly.</p> <ul style="list-style-type: none"> <li><b>a.</b> Describe and compare things in terms of number, shape, texture, size, weight, color, and motion.</li> <li><b>b.</b> Draw pictures (grade level appropriate) that correctly portray features of the thing being described.</li> <li><b>c.</b> Use simple pictographs and bar graphs to communicate data.</li> </ul> <p><b>S1CS6.</b> Students will be familiar with the character of scientific knowledge and how it is achieved.  Students will recognize that:</p> <ul style="list-style-type: none"> <li><b>a.</b> When a science investigation is done the way it was done before, we expect to get a similar result.</li> <li><b>b.</b> Science involves collecting data and testing hypotheses</li> <li><b>c.</b> Scientists often repeat experiments multiple times, and subject their ideas to criticism by other scientists who may disagree with them and do further tests.</li> <li><b>d.</b> All different kinds of people can be and are scientists.</li> </ul> <p><b>S1CS7.</b> Students will understand important features of the process of scientific inquiry.  Students will apply the following to inquiry learning practices:</p> <ul style="list-style-type: none"> <li><b>a.</b> Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.</li> <li><b>b.</b> In doing science, it is often helpful to work as a team.  All team members should reach individual conclusions and share their understandings with other members of the team in order to develop a consensus.</li> <li><b>c.</b> Tools such as thermometers, rulers and balances often give more information about things than can be obtained by just observing things without help.</li> </ul>		

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<p><b>S1E2.</b> Students will observe and record changes in water as it relates to weather.</p> <ul style="list-style-type: none"> <li><b>a.</b> Recognize changes in water when it freezes (ice) and when it melts (water).</li> <li><b>b.</b> Identify forms of precipitation such as rain, snow, sleet, and hailstones as either solid (ice) or liquid (water).</li> <li><b>c.</b> Determine that the weight of water before freezing, after freezing, and after melting stays the same.</li> <li><b>d.</b> Determine that water in an open container disappears into the air over time, but water in a closed container does not.</li> </ul> <p><b>Big Ideas:</b> Changes in Water and Water’s Relation to Weather</p>	<p><b>S1CS1.</b> Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <ul style="list-style-type: none"> <li><b>a.</b> Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.</li> </ul> <p><b>S1CS2.</b> Students will have the computation and estimation skills necessary for analyzing data and following scientific explanations.</p> <ul style="list-style-type: none"> <li><b>a.</b> Use whole numbers in ordering, counting, identifying, measuring, and describing things and experiences.</li> <li><b>b.</b> Readily give the sums and differences of single-digit numbers in ordinary, practical contexts and judge the reasonableness of the answer.</li> <li><b>c.</b> Give rough estimates of numerical answers to problems before doing them formally.</li> <li><b>d.</b> Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.</li> </ul> <p><b>S1CS3.</b> Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.</p> <ul style="list-style-type: none"> <li><b>a.</b> Use ordinary hand tools and instruments to construct, measure, and look at objects.</li> <li><b>c.</b> Identify and practice accepted safety procedures in manipulating science materials and equipment.</li> </ul> <p><b>S1CS4.</b> Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters.</p> <ul style="list-style-type: none"> <li><b>a.</b> Use a model—such as a toy or a picture—to describe a feature of the primary thing.</li> <li><b>b.</b> Describe changes in the size, weight, color, or movement of things, and note which of their other qualities remain the same during a specific change.</li> </ul>	<p><b>Changes in Water and Water’s Relation to Weather</b></p> <p>(Unit A: Chapter 2)</p> <p><b><u>Below Level</u></b> Changes in Water</p> <p><b><u>On-Level</u></b> Forms of Water</p> <p><b><u>Above-Level</u></b> Weather Safety</p>	<p style="text-align: center;"><b>5 weeks</b> Oct 13 – Nov 20</p>

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	<p><b>S1CS5.</b> Students will communicate scientific ideas and activities clearly.</p> <ul style="list-style-type: none"> <li><b>a.</b> Describe and compare things in terms of number, shape, texture, size, weight, color, and motion.</li> <li><b>b.</b> Draw pictures (grade level appropriate) that correctly portray features of the thing being described.</li> <li><b>c.</b> Use simple pictographs and bar graphs to communicate data.</li> </ul> <p><b>S1CS6.</b> Students will be familiar with the character of scientific knowledge and how it is achieved.            Students will recognize that:</p> <ul style="list-style-type: none"> <li><b>a.</b> When a science investigation is done the way it was done before, we expect to get a similar result.</li> <li><b>b.</b> Science involves collecting data and testing hypotheses</li> <li><b>c.</b> Scientists often repeat experiments multiple times, and subject their ideas to criticism by other scientists who may disagree with them and do further tests.</li> <li><b>d.</b> All different kinds of people can be and are scientists.</li> </ul> <p><b>S1CS7.</b> Students will understand important features of the process of scientific inquiry.            Students will apply the following to inquiry learning practices:</p> <ul style="list-style-type: none"> <li><b>a.</b> Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.</li> <li><b>b.</b> In doing science, it is often helpful to work as a team. All team members should reach individual conclusions and share their understandings with other members of the team in order to develop a consensus.</li> <li><b>c.</b> Tools such as thermometers, rulers and balances often give more information about things than can be obtained by just observing things without help.</li> </ul>		

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<p><b>SIP1.</b> Students will investigate light and sound.</p> <ul style="list-style-type: none"> <li>a. Recognize sources of light.</li> <li>b. Explain how shadows are made.</li> <li>c. Investigate how vibrations produce sound.</li> <li>d. Differentiate between various sounds in terms of (pitch) high or low and (volume) loud or soft.</li> <li>e. Identify emergency sounds and sounds that help us stay safe.</li> </ul> <p><b>Big Ideas:</b> Light and Sound</p>	<p><b>S1CS1.</b> Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <ul style="list-style-type: none"> <li>a. Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.</li> </ul> <p><b>S1CS3.</b> Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.</p> <ul style="list-style-type: none"> <li>a. Use ordinary hand tools and instruments to construct, measure, and look at objects.</li> <li>b. Make something that can actually be used to perform a task, using paper, cardboard, wood, plastic, metal, or existing objects.</li> <li>c. Identify and practice accepted safety procedures in manipulating science materials and equipment.</li> </ul> <p><b>S1CS6.</b> Students will be familiar with the character of scientific knowledge and how it is achieved.  Students will recognize that:</p> <ul style="list-style-type: none"> <li>a. When a science investigation is done the way it was done before, we expect to get a similar result.</li> <li>b. Science involves collecting data and testing hypotheses</li> <li>c. Scientists often repeat experiments multiple times, and subject their ideas to criticism by other scientists who may disagree with them and do further tests.</li> <li>d. All different kinds of people can be and are scientists.</li> </ul> <p><b>S1CS7. Students will understand important features of the process of scientific inquiry.</b>  Students will apply the following to inquiry learning practices:</p> <ul style="list-style-type: none"> <li>a. Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.</li> <li>b. In doing science, it is often helpful to work as a team. All team members should reach individual conclusions and share their understandings with other members of the team in order to develop a consensus.</li> </ul>	<p><b>Light and Sound</b></p> <p>(Unit B: Chapter 4)</p> <p><b>Below Level</b>  Light and Sound</p> <p><b>On-Level</b>  Investigating Light and Sound</p> <p><b>Above-Level</b>  Red, White, and Boom</p>	<p><b>7 weeks</b>  Nov 30 – Dec 18  Jan 5 – Jan 29</p>

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<p><b>S1P2.</b> Students will demonstrate effects of magnets on other magnets and other objects.</p> <ul style="list-style-type: none"> <li>a. Demonstrate how magnets attract and repel.</li> <li>b. Identify common objects that are attracted to a magnet.</li> <li>c. Identify objects and materials (air, water, wood, paper, your hand, etc.) that do not block magnetic force.</li> </ul> <p><b>Big Idea:</b> Magnets</p>	<p><b>S1CS1.</b> Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <ul style="list-style-type: none"> <li>a. Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.</li> </ul> <p><b>S1CS3.</b> Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.</p> <ul style="list-style-type: none"> <li>a. Use ordinary hand tools and instruments to construct, measure, and look at objects.</li> <li>b. Make something that can actually be used to perform a task, using paper, cardboard, wood, plastic, metal, or existing objects.</li> <li>c. Identify and practice accepted safety procedures in manipulating science materials and equipment.</li> </ul> <p><b>S1CS6.</b> Students will be familiar with the character of scientific knowledge and how it is achieved.  Students will recognize that:</p> <ul style="list-style-type: none"> <li>a. When a science investigation is done the way it was done before, we expect to get a similar result.</li> <li>b. Science involves collecting data and testing hypotheses</li> <li>c. Scientists often repeat experiments multiple times, and subject their ideas to criticism by other scientists who may disagree with them and do further tests.</li> <li>d. All different kinds of people can be and are scientists.</li> </ul> <p><b>S1CS7. Students will understand important features of the process of scientific inquiry.</b>  Students will apply the following to inquiry learning practices:</p> <ul style="list-style-type: none"> <li>a. Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.</li> <li>b. In doing science, it is often helpful to work as a team. All team members should reach individual conclusions and share their understandings with other members of the team in order to develop a consensus.</li> </ul>	<p style="text-align: center;"><b>Magnets</b></p> <p style="text-align: center;">(Unit B: Chapter 5)</p> <p style="text-align: center;"><u><b>Below Level</b></u> Magnets</p> <p style="text-align: center;"><u><b>On-Level</b></u> What Can Magnets Do?</p> <p style="text-align: center;"><u><b>Above-Level</b></u> Magnetic Force</p>	<p style="text-align: center;"><b>5 weeks</b>  Feb 1 – Feb 12  Feb 23 – Mar 11</p>

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<p><b>S1L1.</b> Students will investigate the characteristics and basic needs of plants and animals.</p> <ul style="list-style-type: none"> <li><b>a.</b> Identify the basic needs of a plant.               <ul style="list-style-type: none"> <li>1. Air</li> <li>2. Water</li> <li>3. Light</li> <li>4. Nutrients</li> </ul> </li> <li><b>b.</b> Identify the basic needs of an animal.               <ul style="list-style-type: none"> <li>1. Air</li> <li>2. Water</li> <li>3. Food</li> <li>4. Shelter</li> </ul> </li> <li><b>c.</b> Identify the parts of a plant—root, stem, leaf, and flower.</li> <li><b>d.</b> Compare and describe various animals—appearance, motion, growth, basic needs.</li> </ul> <p><b>Big Idea:</b> Characteristics and Basic Needs of Plants and Animals</p>	<p><b>S1CS1.</b> Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <ul style="list-style-type: none"> <li><b>a.</b> Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.</li> </ul> <p><b>S1CS3.</b> Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.</p> <ul style="list-style-type: none"> <li><b>c.</b> Identify and practice accepted safety procedures in manipulating science materials and equipment.</li> </ul> <p><b>S1CS4.</b> Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters.</p> <ul style="list-style-type: none"> <li><b>a.</b> Use a model—such as a toy or a picture—to describe a feature of the primary thing.</li> <li><b>b.</b> Describe changes in the size, weight, color, or movement of things, and note which of their other qualities remain the same during a specific change.</li> </ul> <p><b>S1CS5.</b> Students will communicate scientific ideas and activities clearly.</p> <ul style="list-style-type: none"> <li><b>a.</b> Describe and compare things in terms of number, shape, texture, size, weight, color, and motion.</li> <li><b>b.</b> Draw pictures (grade level appropriate) that correctly portray features of the thing being described.</li> <li><b>c.</b> Use simple pictographs and bar graphs to communicate data.</li> </ul> <p><b>S1CS6. Students will be familiar with the character of scientific knowledge and how it is achieved.</b>          Students will recognize that:</p> <ul style="list-style-type: none"> <li><b>a.</b> When a science investigation is done the way it was done before, we expect to get a similar result.</li> <li><b>b.</b> Science involves collecting data and testing hypotheses</li> <li><b>c.</b> Scientists often repeat experiments multiple times, and subject their ideas to criticism by other scientists who may disagree with them and do further tests.</li> <li><b>d.</b> All different kinds of people can be and are scientists.</li> </ul>	<p style="text-align: center;"><b>Characteristics and Basic Needs of Plants and Animals</b></p> <p>(Unit C: Chapters 6-7)</p> <p style="text-align: center;"><b><u>Below Level</u></b>          All About Animals          and          All About Plants</p> <p style="text-align: center;"><b><u>On-Level</u></b>          Animals Everywhere          and          Observing Plants</p> <p style="text-align: center;"><b><u>Above-Level</u></b>          Web of Life          and          What Do You Eat?</p>	<p style="text-align: center;"><b>7 weeks</b>          Mar 15 – Apr 1          Apr 11 – May 6</p>



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