

***SRA Snapshots Simply Science™***  
**correlation to**  
**Missouri Science Standards**  
**Grade 1**

*SRA Snapshots Simply Science™* consists of several components. Each level has Simply Science Video lessons (**Video**) that provide an introduction to or review of the unit science concepts. The Fiction Read Alouds (**RAF**) and Nonfiction Read Alouds (**RANF**) provide student friendly text that reinforces the science concepts in the video. The Teacher’s Idea Book (**TIB**) provides quick lesson activities and reproducible pages (**BLM**). The Vocabulary Photo Cards (**Cards**) contain engaging photos, definitions, and additional activities.

**KEY:**

<b>Reference</b>	<b>Program Component</b>
<b>Video</b>	Video lessons
<b>RAF</b>	Read Aloud - Fiction
<b>RANF</b>	Read Aloud - Nonfiction
<b>TIB</b>	Teacher’s Idea Book
<b>BLM</b>	Reproducible pages
<b>Cards</b>	Vocabulary Photo Cards

<b>SRA Snapshots Simply Science™ Grade 1</b>	
<b>Life Science Unit 1: Living Things and Their Needs</b>	
<b>Program Components</b>	<b>Missouri Science Standards</b>
<p><b>Video</b> Living Things and Their Needs  <b>RAF</b> “A Funny Frog”  <b>RANF</b> “We Are Living Things”  <b>TIB</b> pages 14, 15, 16, 17, 18, 19  <b>BLM</b> pages 70, 71, 72, 73, 74, 75, 76, 77, 78, 79  <b>Cards</b> 1, 2, 3, 4, 5, 6, 57, 64, 67, 68, 69, 71, 72, 76, 80, 81, 83, 84, 87, 88</p>	<p><b>VII. Living Systems</b>  <b>A. Structure/Function/Characteristics</b>  <b>B. By the end of grade 2, all students should know that:</b>  <b>1. Observable characteristics of living organisms can be used to sort and group them.</b>  <b>a.</b> sort common objects based on color and/or shape and use this skill to sort common organisms.</p> <p><b>VIII. Ecology</b>  <b>A. Interactions</b>  <b>By the end of grade 2, all students should know that:</b>  <b>2. All organisms depend on one another and their environment to live and grow.</b>  <b>a.</b> identify the common basic needs of organism and the ways in which they depend on each other and their environment.</p>

**Life Science Unit 1 (continued)**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>TIB page 19, Hands-On Science Activity <i>Group Living/Nonliving Things</i></p>	<p><b>I. Scientific Inquiry:</b> <b>A. Processes of Scientific Inquiry</b> <b>By the end of grade 2, all students should know that:</b> <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b> <b>By the end of grade 2, all students should know that:</b> <b>1. The breadth and style of investigations depend on the questions asked.</b> a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out. b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b> <b>C. Science as a Human Endeavor</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1**  
**Life Science Unit 2: Learning About Plants**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>Video Learning About Plants RAF “Which Way to Sprout?” RANF “Plants Are Living Things” TIB pages 20, 21, 22, 23, 24, 25 BLM pages 80, 81, 82, 83, 84, 85, 86, 87, 88, 89 Cards 7, 8, 9, 10, 11, 12, 55, 56, 69, 81, 84, 87, 88</p>	<p><b>VII. Living Systems</b> <b>B. Life Processes</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Organisms go through life cycles.</b> A. observe and record the phases in the life cycle of various organisms and compare the differences between species.</p> <p><b>E. Adaptation/Evolution</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Organisms have parts that enable them to live and survive in the world.</b> a. organize data, information, and ideas about how body parts enable the organism to live and survive.</p>

**Life Science Unit 2 (continued)**

Program Components	Missouri Science Standards
<p>TIB page 25, Hands-On Science Activity <i>Looking at Plant Parts</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b>  <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>                      a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. The breadth and style of investigations depend on the questions asked.</b>                      a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.                      b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>                      a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1  
 Life Science Unit 3: Habitats Are Everywhere**

Program Components	Missouri Science Standards
<p>Video Habitats Are Everywhere                      RAF “A Home for Maggie”                      RANF “A Habitat Is a Home”                      TIB pages 26, 27, 28, 29, 30, 31                      BLM pages 90, 91, 92, 93, 94, 95, 96, 97, 98, 99                      Cards 13, 14, 15, 16, 17, 18, 66, 75, 82</p>	<p><b>VIII. Ecology</b>  <b>A. Interactions</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. All living organisms interact with each other and their environment.</b>                      a. give examples of how living things affect their environment and other living things.</p> <p><b>2. All organisms depend on one another and their environment to live and grow.</b>                      a. identify the common basic needs of organism and the ways in which they depend on each other and their environment.</p>

**Life Science Unit 3 (continued)**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>TIB page 31, Hands-On Science Activity <i>Habitat Mobiles</i></p>	<p><b>I. Scientific Inquiry:</b> <b>A. Processes of Scientific Inquiry</b> <b>By the end of grade 2, all students should know that:</b> <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b> <b>By the end of grade 2, all students should know that:</b> <b>1. The breadth and style of investigations depend on the questions asked.</b> a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out. b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b> <b>C. Science as a Human Endeavor</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1**  
**Earth Science Unit 4: Learning About Earth’s Surface**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>Video Learning About Earth’s Surface RAF “A Big Difference” RANF “Earth’s Many Resources” TIB pages 32, 33, 34, 35, 36, 37 BLM pages 100, 101, 102, 103, 104, 105, 106, 107, 108, 109 Cards 19, 20, 21, 22, 23, 24, 85, 90</p>	<p><b>VI. Earth Systems</b> <b>A. Physical Systems</b> <b>By the end of grade 2, all students should know that:</b> <b>2. Earth’s natural resources are limited.</b> a. conduct research to develop and evaluate information on the use and abuse of Earth’s natural resources.</p> <p><b>3. Earth’s surface is composed of rocks, soils, water, and living organisms. Differences in these components can be used to classify them.</b> a. apply knowledge and skills to classify a variety of rocks or soil.</p> <p><b>B. Processes of Systems</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Water is stored all over Earth.</b> a. discover and evaluate patterns and relationships in information to predict and identify areas that store water.</p> <p><b>2. Rocks change over time by weathering.</b> a. conduct research to develop and evaluate information to show how rocks change over time by weathering.</p> <p><b>5. The surface of Earth changes slowly (e.g., erosion, weathering) or quickly (e.g., earthquakes, floods, rock/mud slides, volcanic activity).</b> a. present perceptions and ideas on ways the surface of Earth changes slowly or quickly.</p>

**Earth Science Unit 4 (continued)**

Program Components	Missouri Science Standards
<p>TIB page 37 Hands-On Science Activity <i>What Comes from Earth's Surface?</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b>  <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>                      a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. The breadth and style of investigations depend on the questions asked.</b>                      a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.                      b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>                      a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1  
 Earth Science Unit 5: Weather on Earth**

Program Components	Missouri Science Standards
<p>Video Weather on Earth                      RAF "A Leaf's Story"                      RANF "All About Weather!"                      TIB pages 38, 39, 40, 41, 42, 43                      BLM pages 110, 111, 112, 113, 114, 115, 116, 117, 118, 119                      Cards 25, 26, 27, 28, 29, 30, 53, 63, 73, 86</p>	<p><b>VI. Earth Systems</b>  <b>A. Physical Systems</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Water reaches Earth in different forms (snow, hail, rain, fog, etc.).</b>                      a. conduct research to develop and evaluate information and ideas about how water in various forms reaches Earth.</p> <p><b>4. The atmosphere has physical properties that are measurable and predictable.</b>                      a. conduct research to develop and evaluate information about the atmosphere; plan and make a written, oral, and visual presentation of the patterns of change over a period of time.</p> <p><b>B. Processes of Systems</b>  <b>By the end of grade 2, all students should know that:</b>  <b>4. Seasons and changes in weather affect human and animal activity and plant growth.</b>                      a. apply the knowledge and skills learned from weather observation and investigations to study the effect on human and animal activity and plant growth.</p>

**Earth Science Unit 5 (continued)**

Program Components	Missouri Science Standards
<p>TIB page 43, Hands-On Science Activity <i>Seasons</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b>  <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>                      a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. The breadth and style of investigations depend on the questions asked.</b>                      a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.                      b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>                      a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1**

**Earth Science Unit 6: Earth in Space**

Program Components	Missouri Science Standards
<p>Video Earth in Space                      RAF “The Mysterious Moon”                      RANF “Look Up!”                      TIB pages 44, 45, 46, 47, 48, 49                      BLM pages 120, 121, 122, 123, 124, 125, 126, 127, 128, 129                      Cards 31, 32, 33, 34, 35, 36, 86</p>	<p><b>V. Universe</b>  <b>A. Characteristics of the Universe</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Earth is not alone in the universe. Most of the objects in the universe are separated by enormous distance.</b>                      a. present ideas and opinions about the relationship of the sun and moon to Earth and Earth’s position in the universe.                      b. describe the major components of our solar system.</p> <p><b>2. The sun, moon, and stars have recurring patterns.</b>                      a. evaluate information about the sun and moon and share to determine patterns, changes, and relationships.</p> <p><b>B. Motions of the Universe</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Objects in the sky move.</b>                      a. uses sense to gather information about the day sky through regular observations.</p> <p><b>2. Earth makes a full rotation on its axis every 24 hours that causes the day/night cycle.</b>                      a. explain the relationship of the rotation of Earth and the day/night cycle.</p> <p><b>3. Patterns of movement of some objects in the sky are cyclic.</b>                      a. discover and evaluate patterns in the sky.</p>

**Earth Science Unit 6 (continued)**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>TIB page 49, Hands-On Science Activity <i>Modeling Moon Phases</i></p>	<p><b>I. Scientific Inquiry:</b> <b>A. Processes of Scientific Inquiry</b> <b>By the end of grade 2, all students should know that:</b> <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b> <b>By the end of grade 2, all students should know that:</b> <b>1. The breadth and style of investigations depend on the questions asked.</b> a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out. b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b> <b>C. Science as a Human Endeavor</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1  
Physical Science Unit 7: Properties of Matter**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>Video Properties of Matter RAF “What’s the Matter?” RANF “Matter All Around” TIB pages 50, 51, 52, 53, 54, 55 BLM pages 130, 131, 132, 133, 134, 135, 136, 137, 138, 139 Cards 37, 38, 39, 40, 41, 42, 73, 90</p>	<p><b>III. Matter and Energy</b> <b>A. Properties, Characteristics and Structures of Matter</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Observable properties are used to identify objects.</b> a. identify physical properties of objects and sort according to specific properties. b. identify physical properties of objects that are detected through the senses. d. describe a material as its form and size is changed.</p> <p><b>2. Matter had physical properties that can change.</b> a. identify ways heat and light affect common objects. b. compare and contrast the physical properties of a solid and liquid of the same material.</p> <p><b>3. Mixtures are composed of different kinds of matter, each with distinct properties.</b> a. separate, sort, and group the components of a mixture by their properties.</p>

**Physical Science Unit 7 (continued)**

Program Components	Missouri Science Standards
<p>TIB page 55, Hands-On Science Activity <i>Making Mixtures</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b>  <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>                      a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. The breadth and style of investigations depend on the questions asked.</b>                      a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.                      b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>                      a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1  
Physical Science Unit 8: Learning About Forces**

Program Components	Missouri Science Standards
<p>Video Learning About Forces                      RAF “Queen of the Hill”                      RANF “Pushes and Pulls”                      TIB pages 56, 57, 58, 59, 60, 61                      BLM pages 140, 141, 142, 143, 144, 145, 146, 147, 148, 149                      Cards 43, 44, 45, 46, 47, 48</p>	<p><b>IV. Force, Motion and Mechanical Energy</b>  <b>A. Relative Motion</b>  <b>By the end of grade 2, students should know that:</b>  <b>1. An object’s position can be described relative to another object (above, below, left of, right of, behind, or in front).</b>                      a. describe the position of an object relative to another object.</p> <p><b>B. Types and Properties of Forces and Motion</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Forces explain many kinds of motion (e.g., stopping, starting, falling, straight, zigzag, circular, vibrational).</b>                      a. express ideas on the type of motion an object is undergoing.</p> <p><b>2. Force is any push or pull exerted by one object on another.</b>                      a. identify the forces on a moving object and predict the direction it will go.</p> <p><b>C. Interactions of Forces and Motions</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Magnets attract and repel each other and certain kinds of metals.</b>                      a. work as individuals and collaborate with others to identify the materials that are attracted to a magnet.</p> <p><b>2. The movement of an object depends on the force applied and how much mass it has.</b>                      a. identify and analyze how much force is needed to move a variety of objects.</p>



<b>Physical Science Unit 8 (continued)</b>	
<b>Program Components</b>	<b>Missouri Science Standards</b>
TIB page 61, Hands-On Science Activity <i>Big and Small Pushes</i>	<p><b>I. Scientific Inquiry:</b></p> <p><b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Tools, especially measuring, magnifying, and photographic ones, can give more information than by observing using only the senses.</b></p> <p>a. use magnifiers and accurate simple metric measuring tools to observe and measure things in new situations and tasks.</p> <p><b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b></p> <p>a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>5. Objects and events are often observed and described quantitatively.</b></p> <p>a. use whole numbers and simple fractions to measure and describe things.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. The breadth and style of investigations depend on the questions asked.</b></p> <p>a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.</p> <p>b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b></p> <p><b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b></p> <p>a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 1**  
**Physical Science Unit 9: Heat, Light, and Sound**

Program Components	Missouri Science Standards
<p>Video Heat, Light, and Sound            RAF “The Energy Challenge”            RANF “Energy All Around”            TIB pages 62, 63, 64, 65, 66, 67            BLM pages 150, 151, 152, 153, 154, 155, 156, 157, 158, 159            Cards 36, 49, 50, 51, 52, 53, 54, 59, 65, 70, 73, 79</p>	<p><b>III. Matter and Energy</b>  <b>B. Characteristics, Forms and Sources of Energy</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. The sun is the primary source of light and heat for the Earth.</b> <ol style="list-style-type: none"> <li>a. predict how sunlight will affect the temperature of air and water.</li> </ol> </li> <li><b>2. Energy can be converted into different forms.</b> <ol style="list-style-type: none"> <li>a. identify and describe the transformation of energy from one form to another.</li> </ol> </li> <li><b>3. Sound is a form of energy that results from vibrations in matter. Sound has the qualities of loudness and pitch.</b> <ol style="list-style-type: none"> <li>a. apply knowledge of sound, learned from altering loudness and pitch.</li> <li>b. change the pitch of a stringed instrument by changing the length of the strings and the loudness by the energy of the vibration.</li> </ol> </li> </ol> <p><b>C. Interactions of Matter and Energy</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. Objects that give off light may also give off heat.</b> <ol style="list-style-type: none"> <li>a. identify and consider a variety of light sources to determine which gives off heat.</li> </ol> </li> <li><b>2. Heat causes materials to increase in temperature and feel warmer, or change state (gas, liquid, or solid).</b> <ol style="list-style-type: none"> <li>a. select and apply strategies to show how heat causes materials to increase in temperature and makes it feel warmer.</li> </ol> </li> </ol>
<p>TIB page 67, Hands-On Science Activity <i>Investigating Sound</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> <ol style="list-style-type: none"> <li>a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</li> </ol> </li> </ol> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. The breadth and style of investigations depend on the questions asked.</b> <ol style="list-style-type: none"> <li>a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.</li> <li>b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</li> </ol> </li> </ol> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> <ol style="list-style-type: none"> <li>a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</li> </ol> </li> </ol>

***SRA Snapshots Simply Science™***  
**correlation to**  
**Missouri Science Standards**  
**Grade 2**

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**KEY:**

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<b>Video</b>	Video lessons
<b>RAF</b>	Read Aloud - Fiction
<b>RANF</b>	Read Aloud - Nonfiction
<b>TIB</b>	Teacher’s Idea Book
<b>BLM</b>	Reproducible pages
<b>Cards</b>	Vocabulary Photo Cards

<b>SRA Snapshots Simply Science™ Grade 2</b>	
<b>Life Science Unit 1: Organisms Are Living Things</b>	
<b>Program Components</b>	<b>Missouri Science Standards</b>
<p><b>Video</b> Organisms Are Living Things  <b>RAF</b> “The Brave Beaver”  <b>RANF</b> “Organisms Are Alive”  <b>TIB</b> pages 14, 15, 16, 17, 18, 19  <b>BLM</b> pages 70, 71, 72, 73, 74, 75, 76, 77, 78, 79  <b>Cards</b> 1, 2, 3, 4, 5, 6, 7, 8, 11, 55, 57, 59, 62, 64, 65, 70, 72, 73, 80, 83, 87, 88</p>	<p><b>VII. Living Systems</b>  <b>A. Structure/Function/Characteristics</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Observable characteristics of living organisms can be used to sort and group them.</b>  <b>a.</b> sort common objects based on color and/or shape and use this skill to sort common organisms.</p> <p><b>C. Diversity</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Organisms can be grouped by specific characteristics.</b>  <b>a.</b> group organisms according to similar specific structures.  <b>b.</b> compare living things using one or more structure attributes.</p> <p><b>E. Adaptation/Evolution</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Organisms have parts that enable them to live and survive in the world.</b>  <b>a.</b> organize data, information, and ideas about how body parts enable the organism to live and survive.</p>

**Life Science Unit 1 (continued)**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>TIB page 19, Hands-On Science Activity <i>Grouping Animals</i></p>	<p><b>I. Scientific Inquiry:</b> <b>A. Processes of Scientific Inquiry</b> <b>By the end of grade 2, all students should know that:</b> <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b> <b>By the end of grade 2, all students should know that:</b> <b>1. The breadth and style of investigations depend on the questions asked.</b> a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out. b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b> <b>C. Science as a Human Endeavor</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2**  
**Life Science Unit 2: Learning About Animals**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p><b>Video</b> Learning About Animals <b>RAF</b> “Fun in the Rain Forest” <b>RANF</b> “Animals Are Living Things” <b>TIB</b> pages 20, 21, 22, 23, 24, 25 <b>BLM</b> pages 80, 81, 82, 83, 84, 85, 86, 87, 88, 89 <b>Cards</b> 7, 8, 9, 10, 11, 12, 55, 57, 59, 61, 62, 64, 70, 72, 80, 83, 87, 88</p>	<p><b>VII. Living Systems</b> <b>B. Structure/Function/Characteristics</b> <b>C. By the end of grade 2, all students should know that:</b> <b>1. Observable characteristics of living organisms can be used to sort and group them.</b> a. sort common objects based on color and/or shape and use this skill to sort common organisms.</p> <p><b>B. Life Processes</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Organisms go through life cycles.</b> A. observe and record the phases in the life cycle of various organisms and compare the differences between species.</p> <p><b>C. Diversity</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Organisms can be grouped by specific characteristics.</b> a. group organisms according to similar specific structures. b. compare living things using one or more structure attributes.</p>

**Life Science Unit 2 (continued)**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>TIB page 25, Hands-On Science Activity <i>Modeling a Life Cycle</i></p>	<p><b>I. Scientific Inquiry:</b> <b>A. Processes of Scientific Inquiry</b> <b>By the end of grade 2, all students should know that:</b> <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b> <b>By the end of grade 2, all students should know that:</b> <b>1. The breadth and style of investigations depend on the questions asked.</b> a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out. b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b> <b>C. Science as a Human Endeavor</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2  
Life Science Unit 3: Ecosystems All Around**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>Video Ecosystems All Around RAF “A Remarkable River” RANF “Ecosystems in Action” TIB pages 26, 27, 28, 29, 30, 31 BLM pages 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 Cards 13, 14, 15, 16, 17, 18, 55, 57, 59, 62, 64, 70, 72, 80, 83, 87, 88</p>	<p><b>VII. Living Systems</b> <b>E. Adaptation/Evolution</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Organisms have parts that enable them to live and survive in the world.</b> a. organize data, information, and ideas about how body parts enable the organism to live and survive.</p> <p><b>VIII. Ecology</b> <b>A. Interactions</b> <b>By the end of grade 2, all students should know that:</b> <b>1. All living organisms interact with each other and their environment.</b> a. give examples of how living things affect their environment and other living things.</p> <p><b>2. All organisms depend on one another and their environment to live and grow.</b> a. identify the common basic needs of organism and the ways in which they depend on each other and their environment.</p>

**Life Science Unit 3 (continued)**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>TIB page 31, Hands-On Science Activity <i>Caterpillar Camouflage</i></p>	<p><b>I. Scientific Inquiry:</b> <b>A. Processes of Scientific Inquiry</b> <b>By the end of grade 2, all students should know that:</b> <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b> <b>By the end of grade 2, all students should know that:</b> <b>1. The breadth and style of investigations depend on the questions asked.</b> a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out. b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b> <b>C. Science as a Human Endeavor</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2  
Earth Science Unit 4: Earth's Natural Resources**

<b>Program Components</b>	<b>Missouri Science Standards</b>
<p>Video Earth's Natural Resources RAF "The Missing Rock" RANF "Digging in the Dirt" TIB pages 32, 33, 34, 35, 36, 37 BLM pages 100, 101, 102, 103, 104, 105, 106, 107, 108, 109 Cards 19, 20, 21, 22, 23, 24, 78, 79, 82, 89</p>	<p><b>VI. Earth Systems</b> <b>A. Physical Systems</b> <b>By the end of grade 2, all students should know that:</b> <b>2. Earth's natural resources are limited.</b> a. conduct research to develop and evaluate information on the use and abuse of Earth's natural resources.</p> <p><b>3. Earth's surface is composed of rocks, soils, water, and living organisms. Differences in these components can be used to classify them.</b> a. apply knowledge and skills to classify a variety of rocks or soil.</p> <p><b>B. Processes of Systems</b> <b>By the end of grade 2, all students should know that:</b> <b>1. Water is stored all over Earth.</b> a. discover and evaluate patterns and relationships in information to predict and identify areas that store water.</p> <p><b>2. Rocks change over time by weathering.</b> a. conduct research to develop and evaluate information to show how rocks change over time by weathering.</p> <p><b>5. The surface of Earth changes slowly (e.g., erosion, weathering) or quickly (e.g., earthquakes, floods, rock/mud slides, volcanic activity).</b> a. present perceptions and ideas on ways the surface of Earth changes slowly or quickly.</p>

**Earth Science Unit 4 (continued)**

Program Components	Missouri Science Standards
<p>TIB page 37, Hands-On Science Activity <i>Hand-Made Fossils</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b>  <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>                      a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. The breadth and style of investigations depend on the questions asked.</b>                      a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.                      b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>                      a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2  
 Earth Science Unit 5: Weather and Water**

Program Components	Missouri Science Standards
<p>Video Weather and Water                      RAF “Felicia and the Four Seasons”                      RANF “All About Weather!”                      TIB pages 38, 39, 40, 41, 42, 43                      BLM pages 110, 111, 112, 113, 114, 115, 116, 117, 118, 119                      Cards 25, 26, 27, 28, 29, 30, 41, 60, 66, 75, 81, 85, 90</p>	<p><b>VI. Earth Systems</b>  <b>A. Physical Systems</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Water reaches Earth in different forms (snow, hail, rain, fog, etc.).</b>                      a. conduct research to develop and evaluate information and ideas about how water in various forms reaches Earth.</p> <p><b>4. The atmosphere has physical properties that are measurable and predictable.</b>                      a. conduct research to develop and evaluate information about the atmosphere; plan and make a written, oral, and visual presentation of the patterns of change over a period of time.</p> <p><b>B. Processes of Systems</b>  <b>By the end of grade 2, all students should know that:</b>  <b>4. Seasons and changes in weather affect human and animal activity and plant growth.</b>                      a. apply the knowledge and skills learned from weather observation and investigations to study the effect on human and animal activity and plant growth.</p>

<b>Earth Science Unit 5 (continued)</b>	
<b>Program Components</b>	<b>Missouri Science Standards</b>
TIB page 43, Hands-On Science Activity <i>What Can the Wind Blow?</i>	<p><b>I. Scientific Inquiry:</b></p> <p><b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Tools, especially measuring, magnifying, and photographic ones, can give more information than by observing using only the senses.</b></p> <p>a. use magnifiers and accurate simple metric measuring tools to observe and measure things in new situations and tasks.</p> <p><b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b></p> <p>a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. The breadth and style of investigations depend on the questions asked.</b></p> <p>a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.</p> <p>b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b></p> <p><b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b></p> <p>a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>



**SRA Snapshots Simply Science™ Grade 2**  
**Earth Science Unit 6: Learning About Space**

Program Components	Missouri Science Standards
<p><b>Video</b> Learning About Space  <b>RAF</b> “Janie’s Space Journey”  <b>RANF</b> “Earth in Space”  <b>TIB</b> pages 44, 45, 46, 47, 48, 49  <b>BLM</b> pages 120, 121, 122, 123, 124, 125, 126, 127, 128, 129  <b>Cards</b> 31, 32, 33, 34, 35, 36, 86</p>	<p><b>V. Universe</b>  <b>A. Characteristics of the Universe</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Earth is not alone in the universe. Most of the objects in the universe are separated by enormous distance.</b>  a. present ideas and opinions about the relationship of the sun and moon to Earth and Earth’s position in the universe.  b. describe the major components of our solar system.</p> <p><b>2. The sun, moon, and stars have recurring patterns.</b>  a. evaluate information about the sun and moon and share to determine patterns, changes, and relationships.</p> <p><b>B. Motions of the Universe</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Objects in the sky move.</b>  a. uses sense to gather information about the day sky through regular observations.</p> <p><b>2. Earth makes a full rotation on its axis every 24 hours that causes the day/night cycle.</b>  a. explain the relationship of the rotation of Earth and the day/night cycle.</p> <p><b>3. Patterns of movement of some objects in the sky are cyclic.</b>  a. discover and evaluate patterns in the sky.</p>
<p><b>TIB</b> page 49, Hands-On Science Activity <i>Stars in the Day Time</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b>  <b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>  a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. The breadth and style of investigations depend on the questions asked.</b>  a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.  b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b>  <b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>  a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2**  
**Physical Science Unit 7: Characteristics of Matter**

Program Components	Missouri Science Standards
<p><b>Video</b> Characteristics of Matter  <b>RAF</b> “Irene’s Exploration”  <b>RANF</b> “All About Matter”  <b>TIB</b> pages 50, 51, 52, 53, 54, 55  <b>BLM</b> pages 130, 131, 132, 133, 134, 135, 136, 137, 138, 139  <b>Cards</b> 37, 38, 39, 40, 41, 42, 66, 89</p>	<p><b>III. Matter and Energy</b>  <b>A. Properties, Characteristics and Structures of Matter</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Observable properties are used to identify objects.</b>  a. identify physical properties of objects and sort according to specific properties.  b. identify physical properties of objects that are detected through the senses.  d. describe a material as its form and size is changed.</p> <p><b>2. Matter has physical properties that can change.</b>  a. identify ways heat and light affect common objects.  b. compare and contrast the physical properties of a solid and liquid of the same material.</p> <p><b>3. Mixtures are composed of different kinds of matter, each with distinct properties.</b>  a. separate, sort, and group the components of a mixture by their properties.</p>
<p><b>TIB</b> page 55, Hands-On Science Activity <i>How Much Liquid?</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Tools, especially measuring, magnifying, and photographic ones, can give more information than by observing using only the senses.</b>  a. use magnifiers and accurate simple metric measuring tools to observe and measure things in new situations and tasks.</p> <p><b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>  a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. The breadth and style of investigations depend on the questions asked.</b>  a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.  b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>  a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2**  
**Physical Science Unit 8: Forces and Motion**

Program Components	Missouri Science Standards
<p><b>Video</b> Forces and Motion  <b>RAF</b> “Carlos’s Skateboard”  <b>RANF</b> “Motion, Magnets, and More!”  <b>TIB</b> pages 56, 57, 58, 59, 60, 61  <b>BLM</b> pages 140, 141, 142, 143, 144, 145, 146, 147, 148, 149  <b>Cards</b> 43, 44, 45, 46, 47, 48, 71</p>	<p><b>IV. Force, Motion and Mechanical Energy</b></p> <p><b>A. Relative Motion</b>  <b>By the end of grade 2, students should know that:</b></p> <p><b>1. An object’s position can be described relative to another object (above, below, left of, right of, behind, or in front).</b>  a. describe the position of an object relative to another object.</p> <p><b>B. Types and Properties of Forces and Motion</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Forces explain many kinds of motion (e.g., stopping, starting, falling, straight, zigzag, circular, vibrational).</b>  a. express ideas on the type of motion an object is undergoing.</p> <p><b>2. Force is any push or pull exerted by one object on another.</b>  a. identify the forces on a moving object and predict the direction it will go.</p> <p><b>3. Weight is a measurement of the attraction of gravity on a mass. Mass is the amount of matter of an object.</b>  a. use the appropriate tools to weigh an object then find its mass.</p> <p><b>C. Interactions of Forces and Motions</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Magnets attract and repel each other and certain kinds of metals.</b>  a. work as individuals and collaborate with others to identify the materials that are attracted to a magnet.</p> <p><b>2. The movement of an object depends on the force applied and how much mass it has.</b>  a. identify and analyze how much force is needed to move a variety of objects.</p>
<p><b>TIB</b> page 61, Hands-On Science Activity <i>Magnets</i></p>	<p><b>I. Scientific Inquiry:</b></p> <p><b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b>  a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</p> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. The breadth and style of investigations depend on the questions asked.</b>  a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.  b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</p> <p><b>II. Scientific Relevance:</b></p> <p><b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b></p> <p><b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b>  a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</p>

**SRA Snapshots Simply Science™ Grade 2**  
**Physical Science Unit 9: Energy Is Everywhere**

Program Components	Missouri Science Standards
<p><b>Video</b> Energy Is Everywhere  <b>RAF</b> “The Low-Energy Band”  <b>RANF</b> “All About Energy”  <b>TIB</b> pages 62, 63, 64, 65, 66, 67  <b>BLM</b> pages 150, 151, 152, 153, 154, 155, 156, 157, 158, 159  <b>Cards</b> 41, 49, 50, 51, 52, 53, 54, 63, 69, 84, 86</p>	<p><b>III. Matter and Energy</b>  <b>B. Characteristics, Forms and Sources of Energy</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. The sun is the primary source of light and heat for the Earth.</b> <ol style="list-style-type: none"> <li>a. predict how sunlight will affect the temperature of air and water.</li> </ol> </li> <li><b>2. Energy can be converted into different forms.</b> <ol style="list-style-type: none"> <li>a. identify and describe the transformation of energy from one form to another.</li> </ol> </li> <li><b>3. Sound is a form of energy that results from vibrations in matter. Sound has the qualities of loudness and pitch.</b> <ol style="list-style-type: none"> <li>a. apply knowledge of sound, learned from altering loudness and pitch.</li> <li>b. change the pitch of a stringed instrument by changing the length of the strings and the loudness by the energy of the vibration.</li> </ol> </li> </ol> <p><b>C. Interactions of Matter and Energy</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. Objects that give off light may also give off heat.</b> <ol style="list-style-type: none"> <li>a. identify and consider a variety of light sources to determine which gives off heat.</li> </ol> </li> <li><b>2. Heat causes materials to increase in temperature and feel warmer, or change state (gas, liquid, or solid).</b> <ol style="list-style-type: none"> <li>a. select and apply strategies to show how heat causes materials to increase in temperature and makes it feel warmer.</li> </ol> </li> </ol>
<p><b>TIB</b> page 67, Hands-On Science Activity <i>Heat Energy</i></p>	<p><b>I. Scientific Inquiry:</b>  <b>A. Processes of Scientific Inquiry</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>3. Words, pictures, numbers, models, and sounds can be used to describe objects and events.</b> <ol style="list-style-type: none"> <li>a. create communications that describe and compare things in terms of number, shape, texture, size, odor, sound, mass, color, and motion.</li> </ol> </li> </ol> <p><b>B. Investigations</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. The breadth and style of investigations depend on the questions asked.</b> <ol style="list-style-type: none"> <li>a. create and refine ideas and questions about the world by asking for information making careful observations, and trying things out.</li> <li>b. plan and conduct a simple investigation that includes formulating a question, gathering data, and constructing a reasonable explanation.</li> </ol> </li> </ol> <p><b>II. Scientific Relevance:</b>  <b>C. Science as a Human Endeavor</b>  <b>By the end of grade 2, all students should know that:</b></p> <ol style="list-style-type: none"> <li><b>1. Science is a way to solve problems; everybody can do scientific activities, discover some things about nature, and invent things and ideas.</b> <ol style="list-style-type: none"> <li>a. work with a group to solve a problem, giving due credit to the ideas and contributions of each group member.</li> </ol> </li> </ol>