

**Grade: K K Science**  
**Course Curriculum Report**

Alignment with Show-Me Standards	MEASURABLE LEARNER OBJECTIVES	ASSESSMENT	CONCEPTS	LEVEL OF EXPECTATION
SC 8	<p>LOCAL OBJECTIVE: 10-R. Demonstrate an understanding that people, alone or in groups, are always making discoveries about nature and inventing new ways to solve problems and get work done.</p> <p>A. Identify a question that was asked or could be asked or a problem that needed to be solved when given a brief scenario (fiction or nonfiction stories of individuals solving everyday problems or learning through discovery)</p> <p>B. Work with a group to solve a problem, giving due credit to the ideas and contribution of each group member (assess locally)</p> <p>C. Recognize that some objects occur in nature (natural objects); others have been designed and made by people</p> <p>D. Describe how tools have helped scientists make better observations (i.e., magnifiers)</p> <p>LEARNING ACTIVITY:</p>		Technology	

INSTRUCTIONAL METHOD	RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS
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<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">1.3 1.4 1.6</td> <td style="width: 50%; text-align: center;">SC 1</td> </tr> <tr> <td colspan="2"><b>Frameworks</b></td> </tr> <tr> <td colspan="2">SC/III.A/K-4/1/1c SC/III.A/K-4/3/a SC/III.B/K-4/8/a</td> </tr> </table>	1.3 1.4 1.6	SC 1	<b>Frameworks</b>		SC/III.A/K-4/1/1c SC/III.A/K-4/3/a SC/III.B/K-4/8/a		<p><b>LOCAL OBJECTIVE:</b> 1-R. Demonstrate an understanding that objects, and the materials they are made of, have properties that can be used to describe and classify them.</p> <p>A. Describe physical properties of objects (i.e., size, shape, color, and mass) by using the senses, simple tools (e.g., magnifiers, equal arm balances), and/or nonstandard measures (e.g., bigger/smaller; more/less).</p> <p>B. Identify materials (i.e. cloth, paper, wood, rock, metal) that make up an object, and some of the physical properties of the materials (e.g., color, texture, shiny/dull, odor, sound, taste, flexibility).</p> <p>C. Sort objects based on observable physical properties (e.g., size, material, color, shape, and mass)</p> <p><b>LEARNING ACTIVITY:</b> Discovery learning, written work, participate in simple experiments/listening/magnifying/measurement activities, games, learning centers, discussion.</p>		Matter	
1.3 1.4 1.6	SC 1									
<b>Frameworks</b>										
SC/III.A/K-4/1/1c SC/III.A/K-4/3/a SC/III.B/K-4/8/a										

INSTRUCTIONAL METHOD	RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS
Read stories, model, lecture, discussion, cooperative learning.	Rulers, thermometers, balances, magnifying glasses, cassette tapes, flashlight, real objects, trade books, visual/auditory aids. Feely Box, cassette tape of environmental sounds, containers of different smells, foods (salty, sweet, etc.) England and Young			

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1.3 1.6 3.4	SC 1	LOCAL OBJECTIVE: 2-R. Demonstrate an understanding that forms of energy have a source, a means of transfer (work and heat) and a receiver. A. Identify the sounds and their source of vibrations in our everyday life (e.g. alarms, car horns, animals, machines, musical instruments) B. Compare different sounds (i.e., loudness, pitch, rhythm) C. Recognize that the ear serves as a receiver of sound. LEARNING ACTIVITY: Participate in simple experiments and investigations.	Informal observation	Sound	
<b>Frameworks</b> SC/I.B/K-4/2/a					

INSTRUCTIONAL METHOD	RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS
Model, discover learning				

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1.3	SC 2							
1.5								
<b>Frameworks</b> SC/IV.B/K-4/2/a SC/IV.C/K-4/4/a								

INSTRUCTIONAL METHOD	RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS
Lecture, model, read stories, cooperative learning	Real objects to push or pull, science series book and activity cards, visual aids Diana England and Jerri Young			

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1.2	SC 3	LOCAL OBJECTIVE: 4-R. Demonstrate an understanding of plants and animals A. Recognize that living things have offspring B. Recognize a parent-offspring relationships based on the organism's physical similarities and differences C. Observe and compare the structures and behaviors of different kinds of plants and animals. LEARNING ACTIVITY:	Sort animals according to specific characteristics using anecdotal records. Match offspring to parent. Tell teacher basic needs that plants and animals must have to live and grow.	Plants	
1.5				Animals	
1.6					
1.8					

INSTRUCTIONAL METHOD	RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS
	Collections of objects, pictures, charts, trade books, posters, Bennet Springs Nature Center, plastic animals, puppets, real animals. Diana England and Jerri young			

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SC 5	<p>LOCAL OBJECTIVE: 5-R. Demonstrate an understanding that constantly changing properties of the atmosphere occur in patterns which are described as weather.</p> <p>A. Observe and describe daily weather: precipitation (e.g., snow, rain, sleet, fog), wind (i.e., light breezes to strong wind), cloud cover and temperature.</p> <p>B. Observe and describe the general weather conditions that occur during each season.</p> <p>C. Recognize that air is felt as wind (Air is composed of a mixture of gasses, including water vapor, and minute particles.)</p> <p>LEARNING ACTIVITY:</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Weather</td> <td style="width: 20%;"></td> </tr> <tr> <td>Seasons</td> <td></td> </tr> </table>	Weather		Seasons		
Weather								
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1.3	SC 6	<p>LOCAL OBJECTIVE: 6-R. Demonstrate an understanding that the regular and predictable motions of the Earth and moon relative to the sun explain natural phenomena on Earth such as the day, the month, the year, shadows, moon phases, eclipses, tides, and seasons.</p> <p>A. Observe and describe the characteristics of the four seasons as they cycle through the year (summer, fall, winter, spring)</p> <p>B. Describe how the seasons affect the behavior of plants and animals.</p> <p>C. Describe how the seasons affect the everyday life of humans (e.g., clothing, activities)</p> <p>LEARNING ACTIVITY: Create illustrations complete written work, create visual presentations, participate in field trips/learning centers.</p>	Individual and group observation, student-created illustration, common assessments	Seasons		
1.8				Weather		
INSTRUCTIONAL METHOD		RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS	
Lecture, discussion, videos, show models/other visual aids, read trade books		Globe, science series, observatory, 4 seasons bulletin board, trade books, space bubble made of black plastic, videos, models, visual aids				

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SC 5	LOCAL OBJECTIVE: 7-R. Demonstrate an understanding that the Earth, sun, and moon are part of a larger system that includes other planets and smaller celestial bodies. A. Observe and describe the presence of the sun, moon and stars in the sky B. Recognize that there are more stars in the sky than anyone can easily count, but they are not scattered evenly and vary in brightness C. Describe the sun as only being seen in the daytime D. Recognize that the sun appears to move across the sky from morning to night E. Observe that the moon can be seen sometimes at night and sometimes during the daytime F. Recognize that the moon appears to change shape over the course of a month LEARNING ACTIVITY:		Objects in the sky Sun Moon Stars	

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SC 7	<p>LOCAL OBJECTIVE: 8-R. Demonstrate an understanding that scientific inquiry includes the ability to formulate a testable question and explanation and to select appropriate investigative methods in order to obtain evidence relevant to the explanation.</p> <p>A. Pose questions about objects, materials, organism and events in the environment.</p> <p>B. Conduct a simple investigation (fair test) to answer a question.</p> <p>C. Make qualitative observations using the five senses</p> <p>D. Observe using simple tools and equipment (e.g., magnifiers/hand lenses, magnets, equal arm balances, thermometers)</p> <p>E. Measure length and mass using non-standard unit</p> <p>F. Compare amounts/measurements</p> <p>G. Use observations to construct reasonable explanations, describe relationships and make predictions to be tested</p> <p>H. Compare explanations with prior knowledge</p> <p>LEARNING ACTIVITY:</p>		Scientific Inquiry		
<b>INSTRUCTIONAL METHOD</b>		<b>RESOURCES</b>	<b>CORRECTIONS</b>	<b>ENRICHMENTS</b>	<b>SPECIAL NEEDS</b>

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SC 7	LOCAL OBJECTIVE: 9-R. Demonstrate an understanding that the nature of science relies upon communication of results and justification of explanations. A. Communicate observations using words, pictures, and numbers. LEARNING ACTIVITY:		Scientific Inquiry						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="289 431 653 464">INSTRUCTIONAL METHOD</th> <th data-bbox="653 431 1081 464">RESOURCES</th> <th data-bbox="1081 431 1383 464">CORRECTIONS</th> <th data-bbox="1383 431 1688 464">ENRICHMENTS</th> <th data-bbox="1688 431 1995 464">SPECIAL NEEDS</th> </tr> </thead> </table>					INSTRUCTIONAL METHOD	RESOURCES	CORRECTIONS	ENRICHMENTS	SPECIAL NEEDS
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