

Nebraska Science Standards – 1st Grade

Nebraska Science Standards – 1 st Grade	2 nd - 3 rd Grade				3 rd - 4 th Grade				4 th - 5 th Grade			
	Soil Habitats	Shoreline Science	Designing Mixtures	Gravity & Magnetism	Light Energy	Weather & Water	Variation and Adaptation	Digestion & Body Systems	Planets & Moons	Aquatic Ecosystems	Models of Matter	Chemical Changes
<p>1.1 UNIFYING CONCEPTS AND PROCESSES Unifying concepts and processes help students think about and integrate a range of basic ideas which builds an understanding of the natural world.</p>												
1.1.1 By the end of first grade, students will develop an understanding of systems, order, and organization.	•	•		•								
1.1.2 By the end of first grade, students will develop an understanding of evidence, models, and explanation.	•••	•••	•••	•••								
1.1.3 By the end of first grade, students will develop an understanding of change, constancy, and measurement.	•••	•••	•	•								
1.1.4 By the end of first grade, students will develop an understanding of form and function.		•										

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<p>1.2 SCIENCE AS INQUIRY Science as inquiry requires students to combine processes and scientific knowledge with scientific reasoning and critical thinking to develop their understanding of science.</p>												
1.2.1 By the end of first grade, students will develop the abilities needed to do scientific inquiry.	● ● ●	● ● ●	● ● ●	● ● ●								
<p>1.3 PHYSICAL SCIENCE Physical science focuses on science facts, concepts, principles, theories, and models that are important for all students to know, understand, and use.</p>												
1.3.1 By the end of first grade, students will develop an understanding of the characteristics of materials.	● ●	● ●	● ● ●	●								
<p>1.4 LIFE SCIENCE Life science focuses on science facts, concepts, principles, theories, and models that are important for all students to know, understand, and use.</p>												
1.4.1 By the end of first grade, students will develop an understanding of the characteristics of living things.	● ● ●	● ● ●										

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1.4.2 By the end of first grade, students will develop an understanding of the life cycles of organisms.	• •											
<p>1.5 EARTH AND SPACE SCIENCE Earth and space science focuses on science facts, concepts, principles, theories, and models that are important for all students to know, understand, and use.</p>												
1.5.1 By the end of first grade, students will develop an understanding of the characteristics of earth materials.	• • •	• • •										
1.5.2 By the end of first grade, students will develop an understanding of the objects in the sky.												
1.5.3 By the end of first grade, students will develop an understanding of the changes in the earth and sky.		• •										
<p>1.6 Science and Technology An understanding of science and technology establishes connections between the natural and designed world, linking science and technology.</p>												
1.6.1 By the end of first grade, students will develop an understanding of technological design			• •									

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1.6.2 By the end of first grade, students will develop an understanding of science and technology.			● ●									
<p>1.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES A personal and social perspective of science helps a student to understand and act on personal and social issues. This perspective builds a foundation for future decision making.</p>												
1.7.1 By the end of first grade, students will develop an understanding of personal health.												
1.7.2 By the end of first grade, students will develop an understanding of resources.	●	●										
<p>1.8 HISTORY AND NATURE OF SCIENCE The history and nature of science illustrates different aspects of scientific inquiry, the human aspects of science , and the role that science has played in the development of various cultures.</p>												
1.8.1 By the end of first grade, students will develop an understanding of science as a human endeavor.	●	●	●	●								

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