

Bringing 4-H to the Classroom — An Introduction to School Standards

Content standards establish specific expectations for the assessment of cumulative learning by the end of first grade, fourth grade, eighth grade, and twelfth grade. The standards listed for this curriculum serve as a base guide and are not absolute – you may find that you add or subtract specific standards as you seek to meet the needs of your unique educational setting.

As this is a University of Nebraska–Lincoln Extension publication, the Nebraska State Educational Standards have been aligned to the materials in this curriculum. Alignment of the Nebraska Standards is in compliance with national educational standards. If you are using this curriculum in another state, please refer to your local education department to reference your own individual state standards and see how they relate to the standards listed here.

Wildlife Conservation I Activities: Aligned with Nebraska State Education Content Standards and National Education Standards

The content area “home base” for this curriculum is Science, Engineering, and Technology.

Wildlife Standards

Nebraska Science Standards

- 8.1.1 – Develop an understanding of systems, order, and organization.
- 8.1.2 – Develop an understanding of evidence, models, and explanation.
- 8.1.3 – Develop an understanding of change, constancy, and measurement.
- 8.2.1 – Develop the abilities needed to do scientific inquiry.
- 8.4.1 – Develop an understanding of the structure and function in living systems.
- 8.4.3 – Develop an understanding of regulation and behavior.
- 8.4.4 – Develop an understanding of populations and ecosystems.
- 8.4.5 – Develop an understanding of diversity and adaptations of organisms.
- 8.7.2 – Develop an understanding of relationships among populations, resources, and environments.
- 8.7.3 – Develop an understanding of natural hazards.

- 8.7.4 – Develop an understanding of risks and benefits.
- 8.7.5 – Develop an understanding of science and technology in society.
- 8.8.1 – Develop an understanding of science as a human endeavor.
- 8.8.2 – Develop an understanding of the nature of science.
- 8.8.3 – Develop an understanding of the history of science.

National Science Standards

NS.5-8.1 – Science as inquiry

As a result of activities in grades 5-8, all students should develop:

- Abilities necessary to do scientific inquiry
- Understandings about scientific inquiry

NS.5-8.3 – Life science

As a result of their activities in grades 5-8, all students should develop understanding of

- Structure and function in living systems
- Regulation and behavior
- Populations and ecosystems
- Diversity and adaptations of organisms

NS.5-8.6 – Personal and social perspectives

As a result of activities in grades 5-8, all students should develop understanding of

- Populations, resources, and environments
- Natural hazards
- Risks and benefits
- Science and technology in society

NS.5-8.7 – History and nature of science

As a result of activities in grades 5-8, all students should develop understanding of

- Science as a human endeavor
- Nature of science
- History of science

Nebraska Math Standards (especially experiments; may apply to other field observations)

- 8.1.1 – Students will recognize natural numbers, whole numbers, integers, and rational numbers.
- 8.3.1 – Students will select measurement tools and measure quantities for temperature, time, money, distance, angles, area, perimeter, volume, capacity, and weight/mass in standards metric units at the designated level or precision.

- 8.5.1 – Students will collect, construct, and interpret data displays.
- 8.5.2 – Students will read and interpret tables, charts, and graphs to make comparisons and predictions.
- 8.5.3 – Students will conduct experiments or simulations to demonstrate theoretical probability and relative frequency.
- 8.5.4 – Students will identify statistical methods and probability for making decisions.
- 8.6.3 – Students will describe and represent relations, using tables, graphs, and rules.

National Math Standards

- NM-PROB.REP.PK-12.1 – Create and use representations to organize, record, and communicate mathematical ideas.
- NM-PROB.REP.PK-12.3 – Use representations to model and interpret physical, social, and mathematical phenomena.
- NM-PROB.CONN.PK-12.3 – Recognize and apply mathematics in contexts outside mathematics.
- NM-DATA.6-8.1 – Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer.
- NM-DATA.6-8.2 – Select and use appropriate statistical methods to analyze data.
- NM-DATA.6-8.3 – Develop and evaluate inferences and predictions that are based on data.
- NM-DATA.6-8.4 – Understand and apply basic concepts of probability.
- NM-NUM.6-8.1 – Understand numbers, ways of representing numbers, relationships among numbers, and number systems.

- NM-NUM.6-8.3 – Compute fluently and make reasonable estimates.
- NM-MEA.6-8.1 – Understand measurable attributes of objects and the units, systems, and processes of measurement.
- NM-MEA.6-8.2 – Apply appropriate techniques, tools, and formulas to determine measurements.

Nebraska Reading/Writing Standards

- 8.1.2 – Students will identify, locate, and use multiple resources to access information on an assigned or self-selected topic.
- 8.1.5 – Students will identify and apply knowledge of the text structure and organizational elements to analyze nonfiction or informational text.
- 8.2.1 – Students will write using standard English (conventions) for sentence structure, usage, punctuation, capitalization, and spelling.
- 8.2.2 – Students will write compositions with focus, related ideas, and supporting details. (Activity 6)
- 8.2.5 – Students will demonstrate the ability to use self-generated questions, note taking, summarizing, and outlining while learning.
- 8.3.1 – Students will participate in discussions by asking questions and contributing information and ideas.
- 8.3.2 – Students will use multiple presentation styles for specific audiences and purposes.
- 8.4.1 – Students will identify information gained and complete tasks through listening.



National Language Arts Standards

NL-ENG.K-12.3 – Evaluation strategies

Students apply a wide range of strategies to comprehend, interpret, evaluate, and appreciate texts. They draw on their prior experience, their interactions with other readers and writers, their knowledge of word meaning and of other texts, their word identification strategies, and their understanding of textual features (e.g., sound-letter correspondence, sentence structure, context, graphics).

NL-ENG.K-12.4 – Communication skills

Students adjust their use of spoken, written, and visual language (e.g., conventions, style, vocabulary) to communicate effectively with a variety of audiences and for different purposes.

NL-ENG.K-12.5 – Communication strategies

Students employ a wide range of strategies as they write and use different writing process elements appropriately to communicate with different audiences for a variety of purposes.

NL-ENG.K-12.7 – Evaluating data

Students conduct research on issues and interests by generating ideas and questions, and by posing problems. They gather, evaluate, and synthesize data from a variety of sources (e.g., print and nonprint texts, artifacts, people) to communicate their discoveries in ways that suit their purpose and audience.

NL-ENG.K-12.8 – Developing research skills

Students use a variety of technological and information resources (e.g., libraries, databases, computer networks, video) to gather and synthesize information and to create and communicate knowledge.

NL-ENG.K-12.12 – Applying language skills

Students use spoken, written, and visual language to accomplish their own purposes (e.g., for learning, enjoyment, persuasion, and the exchange of information).

Nebraska Social Studies/History Standards

8.1.5 – Describe growth and change in the United States from 1801-1961.

8.1.7 – Explain post Civil War changes in the United States.

8.1.8 – Describe key social, economic, and cultural developments from WWI through the Great Depression.

8.3.5 – Explain the structure and operation of the United States economy and the role of citizens as producers and consumers.

8.4.2 – Demonstrate skills of historical analysis.

8.4.3 – Develop skills in discussion, debate, and persuasive writing by analyzing historical situations and events. (Activity 6)

National Social Studies/History Standards

NSS-USH.5-12.3 – Era 3: Revolution and the new nation (1754-1820s)

NSS-USH.5-12.4 – Era 4: Expansion and reform (1801-1861)

NSS-USH.5-12.5 – Era 5: Civil War and Reconstruction (1850-1877)

NSS-USH.5-12.6 – Era 6: The development of the industrial United States (1870-1900)

NSS-USH.5-12.7 – Era 7: The emergence of modern America (1890-1930)

NSS-USH.5-12.8 – Era 8: The Great Depression and World War II (1929-1945)

NSS-EC.5-8.3 – Allocation of goods and services

NSS-EC.5-8.16 – Role of government

Nebraska Agriculture Education Standards

12.7.1 – Students will recognize the importance in all aspects of interacting with the natural environment and its resources.

12.7.2 – Students will investigate natural resource career opportunities.

12.7.3 – Students will explain the impact of past and current environmental issues.

12.7.9 – Students will identify and suggest strategies to properly manage the natural resources of fish and wildlife.

12.7.12 – Students will practically apply technology in natural resource experiences.

Nebraska Visual and Performing Arts Standards (Activities 1-5, journal/sketchbook)

VPA K-12.1.1 – Students recognize the connections between the arts and their own lives and environments.

VPA K-12.2.1 – Students recognize the value of the arts in their own learning and creative processes.

VPA K-12.4.1 – Students exhibit a variety of creative skills in their own artistic expressions and in response to others.

VPA K-12.6.1 – Students understand connections between the arts and other fields of study.

National Fine Arts Standards

NA-VA.5-8.1 – Understanding and applying media, techniques, and processes.

Wildlife Conservation 1

Activities: Aligned with Nebraska State Education Content Standards and National Education Standards

	Nebraska Standards	National Standards
Science	8.1.1 8.1.2 8.1.3 8.2.1 8.4.1 8.4.3 8.4.4 8.4.5 8.7.2 8.7.3 8.7.4 8.7.5 8.8.1 8.8.2 8.8.3	NS.5-8.1 NS.5-8.3 NS.5-8.6 NS.5-8.7
Math	8.1.1 8.3.1 8.5.1 8.5.2 8.5.3 8.5.4 8.6.3	NM-PROB.REP.PK-12.1 NM-PROB.REP.PK-12.3 NM-PROB.CONN.PK-12.3 NM-DATA.6.8.1 NM-DATA.6-8.2 NM-DATA.6-8.3 NM-DATA.6-8.4 NM-NUM.6-8.1 NM-NUM.6-8.3 NM-MEA.6-8.1 NM-MEA.6-8.2
Reading/Writing	8.1.2 8.1.5 8.2.1 8.2.2 8.2.5 8.3.1 8.3.2 8.4.1	NL-ENG.K-12.3 NL-ENG.K-12.4 NL-ENG.K-12.5 NL-ENG.K-12.7 NL-ENG.K-12.8 NL-ENG.K-12.12
Social Studies/History	8.1.5 8.1.7 8.1.8 8.3.5 8.4.2 8.4.3	NSS-USH.5-12.3 NSS-USH.5-12.4 NSS-USH.5-12.5 NSS-USH.5-12.6 NSS-USH.5-12.7 NSS-USH.5-12.8 NSS-EC.5-8.3 NSS-EC.5-8.16
Agriculture Education	12.7.1 12.7.2 12.7.3 12.7.9 12.7.12	
Visual & Performing Arts	VPAK-12.1.1 VPAK-12.2.1 VPAK-12.4.1 VPAK-12.6.1	NA-VA.5-8.1 NA-VA.5-8.6