

Bringing 4H 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.

In addition, as the curriculum is adapted standards for grade levels not listed here may be met. Visit the Nebraska Department of Education website to access current standard lists in each content area.

As this is a University of Nebraska-Lincoln Extension publication, the Nebraska State Educational Standards have been aligned to the materials found 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.

4-Wheelin' Physics Fun Activities: Aligned with Nebraska State Education Content Standards

Nebraska State Education Content Standards are “statements focusing on academic knowledge, skills and understandings that schools should teach and students should know as a result of their schooling” (Nebraska L.E.A.R.N.S., 1999).

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

Reading/Writing:

- 8.1.1 – Students will identify the basic facts and essential ideas in what they have read or viewed.
- 8.1.5 – Students will identify and apply knowledge of structure, elements, and meaning of nonfiction or informational material and provide evidence from the text to support their understanding.
- 8.2.1 – Students will identify, describe, and apply knowledge of the structure of the English language and standard English conventions for sentence structure, usage, punctuation, capitalization, and spelling.
- 8.2.5 – Students will use self-generated questions, note-taking, summarizing, and outlining to enhance learning.
- 8.3.1 – Students will pose questions and contribute their own information or ideas in class discussions in order to acquire new knowledge.
- 8.4.1 – Apply listening skills in a variety of settings.

Science:

- 8.3.1 – Students will develop an understanding of properties and changes of properties in matter.
- 8.3.2 – Students will develop an understanding of motion and forces.
- 8.3.3 – Students will develop an understanding of the forms of energy and how energy is transferred.

Math:

- 8.1.1 – Students will recognize natural numbers, whole numbers, integers, and rational numbers.
- 8.1.2 – Students will determine equivalences among fractions, decimals, and percents.
- 8.2.3 – Students will solve problems involving whole numbers, integers, and rational numbers (fractions, decimals, ratios, proportions, and percents) with and without the use of technology.
- 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 standard and metric units at the designated level of precision.