

Grades 3-5 Standards

Science Standards

1. Life Science

- a. Structure and function of living system - **Wildlife and plant life, Wildlife CSI**
 1. **SC5.3.1** Students will investigate and compare the characteristics of living things.
- ii. Characteristics of Life -
 1. **SC5.3.1.a** Compare and contrast characteristics of living and nonliving things – **Provide different specimens both live and dead to explore the different characteristics**
 2. **SC5.3.1.b** Identify how parts of plants and animals function to meet basic needs - **leg of an insect helps an insect move, root of a plant helps the plant obtain water**
- iii. Flow of matter and energy in ecosystems
 1. **SC5.3.3** Students will describe relationships within an ecosystem. **Wildlife habitat and ecosystem presentations**



Students demonstrate how energy moves through a food web.

- iv. Flow of energy **Food web exercises (multiple)**
 1. **SC5.3.3.a** Diagram and explain a simple food chain beginning with the sun
 2. **SC5.3.3.b** Identify the role of producers, consumers, and decomposers in an ecosystem.
 - v. Ecosystems - **Ecosystem and wildlife habitat both land and in water**
 1. **SC5.3.3.c** Recognize the living and nonliving factors that impact the survival of organisms in an ecosystem. **Oh Deer! activity**
 - vi. Impact on Ecosystems - **Presentations on ecosystem, wildlife habitat, human development, flooding, and human development**
 1. **SC5.3.3.d** Recognize all organisms cause changes, some beneficial and some detrimental, in the environment where they live.
- b. Biodiversity
- i. Biological Adaptations
 1. **SC5.3.4.a** Describe adaptations made by plants or animals to survive environmental changes. - **Students create fictional animal and create a habitat for it to survive in**

2. Earth and Space Sciences

a. Earth Structures and Processes

i. Properties of Earth Materials

1. **SC5.4.2.a** Describe the characteristics of rocks, minerals, soil, water, and the atmosphere



(Left) Wolf talks about how water flows under ground. (Above) Picture of a cloud over the NRD building. We provide presentations on water cycle and climate.

ii. Earth's Processes

1. **SC5.4.2.b** Identify weathering, erosion, and deposition as processes that build up or break down Earth's surface. – **Stream Table**
2. **SC8.4.2.h** the water cycle – **Presentation and materials about the water cycle**

iii. Use of Earth Materials

1. **SC5.4.2.c** Identify how Earth materials are used. - **Fuels, building materials, sustaining plant life and What Comes from Trees?**

b. Earth's History

i. Past/Present Earth

1. **SC5.4.4.a** Describe how slow processes (erosion, weathering, deposition, uplift) and rapid processes (landslides, volcanic eruptions, earthquakes, violent storms) change Earth's surfaces. – **Stream table and other presentations**

a. Social Studies Standards

- i. **4.3** – Students will describe social and economic development of Nebraska in the 20th century. - **We can look at the different developments here in Nebraska that contributed to our state. We can also provide a history of irrigation, both groundwater and surface water, have contributed to the economic development to the panhandle, and how conservation efforts have contributed to the developments in agricultural**
- ii. **4.12** – identify Mountains, lakes, and rivers in each region. - **We could help the students identify river basins, and the different parts of the system and the use of GIS**

If you have any special requests, I would be more than happy to come create it. I just need your objectives and specific instructions you want us to cover. Just let us know!