

## Science Standards

### 1. Physical Science

#### a. Universal forces

- i. **SC12.2.2.f** Describe gravity as a force that each mass exerts on another mass, which is proportional to the masses and the distance between them - **flooding, erosion, river development**

### 2. Life Science

#### i. Behavior - **Wildlife habitat changes and evolution**

1. **SC12.3.1.d** Describe how an organism senses changes in its internal or external environment and responds to ensure survival.

#### ii. Flow of energy - **Ecosystem**

1. **SC12.3.3.a** Explain how the stability of an ecosystem is increased by biological diversity. **Healthy systems vs. unhealthy systems Disease, climate conditions, and other factors**

#### iii. Ecosystems - **Ecosystem, and wildlife habitat both land and in water**

1. **SC12.3.3.c** Explain how distribution and abundance of different organisms in ecosystems are limited by the availability of matter and energy and the ability of the ecosystem to recycle materials. - **Oh Deer!**

#### iv. Impact on Ecosystems - **Ecosystem, wildlife habitat, human development, flooding**

1. **SC12.3.3.d** Analyze factors which may influence environmental quality. - **Take a look at NRD's water quality programs**

*NRD Staff checking water levels. NRD staff also tests for various contaminants such as nitrates and various bacteria*



#### b. Biodiversity

##### i. Biological Adaptations - **Drought mitigation**

1. **SC12.3.4.a** Identify different types of adaptations necessary for survival (morphological, physiological, behavioral).

##### ii. Biological Evolution - **Wildlife and biodiversity habitat**

1. **SC12.3.4.a** Recognize that the concept of biological evolution is a theory which explains the consequence of the interactions of: (3) a finite supply of the resources required for life, and (4) the ensuing selection by the environment of those offspring better able to survive and leave offspring.
2. **SC12.3.4.c** Explain how natural selection provides a scientific explanation of the fossil record and the molecular similarities among the diverse species of living organisms. - **We do have access to some fossils and people that can present**
3. **SC.12.3.4.d.** Apply the theory of biological evolution to explain diversity of life over time.

##### iii. Use of Earth Materials

1. **SC12.4.2.c** Evaluate the impact of human activity and natural causes on Earth's resources. - **Groundwater, rivers, land, fossil fuels, irrigation and land development**

*Seminoe Reservoir located in Southern Wyoming on the North Platte River*



- c. Energy in Earth's Systems
  - i. Energy Sources
    1. **SC12.4.3.c** Compare and contrast benefits of renewable and nonrenewable energy sources

Social Studies Standards

- i. **12.1.7** -- Explain the impact of New Deal economic policies. - **We could look at the different government plans that help develop natural resources, ie. Conservation efforts, infrastructure development, and other developments dealing with natural resources**
- ii. **12.3.7** – Students will analyze structure and function of Nebraska State and local governments. - **Can explain the uniqueness of the NRD system. It is the only one in the country**

**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!**