

THANK YOU!



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Roger and Julie Frandsen
Lee's Family Restaurant
Middle Niobrara Natural Resources District
Super Saver - Grand Island Second Street

SCHOOLS ATTENDING

Red Cloud Community Schools
Bryan Elementary (3 classes)
Engleman Elementary (4 classes)
Humphrey St. Francis
Seedling Mile Elementary
St. Paul Elementary
Dodge Elementary (2 classes)
St. Joseph Catholic Elementary
Hitchcock County Elementary
St. Anthony School
Pershing Elementary (9 classes)
Shell Creek Elementary (2 classes)
Superior Elementary (2 classes)
Central Valley Public Schools
New Hope Christian School
Sandy Creek Elementary
Shoemaker Elementary (3 classes)

SCHOOL NOTABLES

36 classes - **17** schools are represented
780 students in attendance
Largest school Pershing Elementary - 160 students
Smallest School Seedling Mile - 15 students

FESTIVAL COORDINATORS

CENTRAL PLATTE NRD STAFF

Marcia Lee - Central Platte NRD
Brody Vorderstrasse - Central Platte NRD

CAMPUS COORDINATORS

Rob Briseno - Central Community College
Karen Cox - Central Community College
Ranae Ehlers - College Park

Visit Nebraska Children's Groundwater Festival
www.cpnrd.org/education

Nebraska Children's Groundwater Festival



Educating youth on the importance of our most precious resource... GROUNDWATER

Tuesday, May 16, 2023

**Central Community College & College Park
Grand Island, Nebraska**

Welcome! The Nebraska Children's Groundwater Festival promotes the conservation of groundwater quality and groundwater use by providing an event for water and natural resources professionals to teach up to 800 students in one day.

Over 31,000 students have been educated at the Festival since 1988. Each school attends six in-depth classroom activities and a stage show.

This event was the first groundwater festival formed and has been replicated in 42 states in the USA, Mexico, Canada, India, and the United Kingdom.



**Central Platte Natural Resources District
www.cpnrd.org**

CLASSROOM ACTIVITIES

Students are scheduled to attend 6 activities, a stage show and lunch. The 25-minute activities are in-depth and hands-on. All activities are held at CCC & College Park.

CCC = Central Community College

CP = College Park

Awesome Aquifer (CCC 405) *NRCS - Natural Resources Conservation Service* Learn about location, size, and function of the High Plains Aquifer by constructing your own model.

Awesome Aquifers (CCC 454) *USGS- U.S. Geological Survey* Learn how surface water and groundwater interact and how external factors i.e. pumping and contamination affect them.

Building Floodplain Town (CCC 251) *NeDNR - Nebraska Dept. of Natural Resources* Learn benefits of floodplains (recreation, wildlife habitat, recharge) & experience how to manage them.

Critter Cube Count (CCC 522) *Grand Island Izaak Walton League* Role dice to identify macroinvertebrate, then use math to calculate the health of a stream and how it affects groundwater.

Duck, Duck, Guess (CCC 255) *NeDNR - Nebraska Dept. of Natural Resources* This hands-on activity will test your knowledge of water.

Enviroscape: Stormwater (CCC 253) *City of Grand Island* See how easy behaviors & practices can make a big impact on our environment to reduce pollution.

Green/Gray Relay (CP 103/104) *Nebraska Extension* Compete in a relay race to learn the difference between green and gray infrastructure.

Goopy Garbage (CP Ext. Room 2) *Upper Big Blue NRD* Create a model landfill to discuss precipitation, percolation & leachate to learn the importance of protecting groundwater from contamination.

Groundwater: It's In What You Drink! (CCC 310) *Ensign Beverage* We'll discuss what beverages are made with groundwater including those made here in Nebraska.

Groundwater Jeopardy (CCC 554) *Nebraska Corn Board* Use teamwork to tackle topics on groundwater and Nebraska ag topics with trivia, Pictionary, and charades.

Hidden Household Hazards (CP 105/106) *Meridian Enrichment Program* Use safe, effective, alternative cleaning solutions that will not harm the groundwater.

How Wetlands Work (CCC 312) *Ducks Unlimited* Build a model wetland to learn how they help people daily by preventing floods/pollution & replenish groundwater supplies.

Incredible Journey/Blue Planet (CCC 260) *Nebraska Forest Service* Estimate the % of Earth's surface covered by water by tossing an inflatable globe & check probability by rolling dice.

Infiltration Station (CP 107 to Outdoor) *JEO Consulting Group* Learn the importance of infiltration with a fun water gun activity.

Preserving Grasslands (CP North Parking Lot) *Central Platte NRD* Learn challenges facing Nebraska's grasslands & habitat. See equipment used for wildfire and prescribed burning.

Renewable Grid Simulator (CP 201/202) *Nebraska Public Power District* Use hand-crafted generators to learn how water is used as a cooling source to generate electricity.

Soaking Into Rain Gardens: Native Plants & Pollinators (CCC 555) *Environmental Sustainability Office* Tour CCC's pollinator garden & learn about the role native plants play in supporting soil health and water quality.

Soil is the Skin of the World (CP Ext. Room 1) *Nebraska NRCS* Get your hands in the dirt to build a Soil Profile Card. Live demonstrations and real soil visual aids.

The Incredible Journey (CCC 456) *EA Engineering, Science & Technology* Learn physical properties of water and how it moves through the water cycle by rolling dice to create a bracelet with properties of water in soil, plants, surface & groundwater.

There's No New Water (CCC 525) *Nebraska Extension* Learn how many users need groundwater and the importance of conserving the resources that we have.

Understanding Pollutant Transport & Water Quality Impacts (CCC 313 to Outdoor) *Nebraska Dept of Environment & Energy* See rainfall simulator and groundwater models in action to learn infiltration vs various landcover characteristics.

STAGE SHOWS

Interactive Theatrical Presentation: Groundwater (CP Auditorium)
Fax Gilbert's characters/skits lead students to a deeper understanding of aquifers, hydrologic cycle, groundwater preservation and potential contaminants.

The Raptor Connection (CCC 355 - Cafeteria)
Raptor Conservation Alliance share live raptors for you to meet up close! Learn how raptors are dependent upon groundwater and surface water for food, shelter and nesting.

Wastewater Jeopardy (CCC 524) *Nebraska Water Environment Association* Play an interactive water version of the game show Jeopardy with questions related to water and wastewater.

Water & Weather "Feud" (CCC 311) *National Weather Service* Play an interactive game like Family Feud while learning weather and water information.

Water Cycle Bingo (CCC 552) *Grand Island Area Clean Community System* Have fun learning and memorizing how the water cycle works.

W-A-T-E-R-C-Y-C-L-E Bingo (CCC 258) *Hall County 4-H* Learn the parts of the water cycle - from evaporation to precipitation - with vocabulary-matching game.

Water Cycle in a Cup! (CCC 457 to Outdoor) *Stuhr Museum* Create a water cycle in a cup and add a seed for plant growth.

Water For All Users (CP 207/208) *Lower Niobrara NRD* Analyze 8 water users and determine how climate change will impact the community.

Water Rockets (CP 203/204) *Grand Island Groundwater Guardian Team* Use water and compressed air to build a water rocket and learn about Grand Island's water system. Then launch your rocket!

We All Live in a Watershed (CP Multipurpose Room)
Lower Loup NRD Scenario: You have \$5 million to build/develop riverside land however you want. Learn how everyone affects the watershed they live in.

What Makes Up Your Water? (CCC North Parking Lot)
Raising Nebraska & UNL Mobile Science Lab Enjoy the Lab's science classroom & agricultural science curriculum.