



2017 STEM Reading Connections – Build a Better World

Nebraska Extension



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EXTENSION

Our Team



Jackie Steffen
Extension Educator
Cedar County
jsteffen2@unl.edu



Sarah Roberts
Extension Educator
Dixon County
spaulos2@unl.edu



Sonya Glup
Extension Assistant
Boone & Nance
sglup2@unl.edu



Karna Dam
Extension Educator
Dodge County
kdam2@unl.edu



Jennifer Hansen
Extension Educator
Thurston County
jhansen6@unl.edu



Ann Fenton
Extension Educator
Pierce County
afenton1@unl.edu



Chandra Murray
Extension
Educator
BKR County
cmurray3@unl.edu



Jennifer Schoen
Extension Educator
Garfield, Loup &
Wheeler
jschoen4@unl.edu

4-H Summer Reading Connections

Engages youth in extended 4-H learning opportunities through the Collaborative Summer Library Program.



4-H GROWS HERE

Goals

- Provide 4-H youth development opportunities to youth.
- Offer educational resources to librarians and youth development professionals.
- Spark an interest in 4-H programs.

We reach out to youth where they live and interact to engage them in life skill development through the framework of 4-H and positive youth development.

Target Audience

YOUTH:

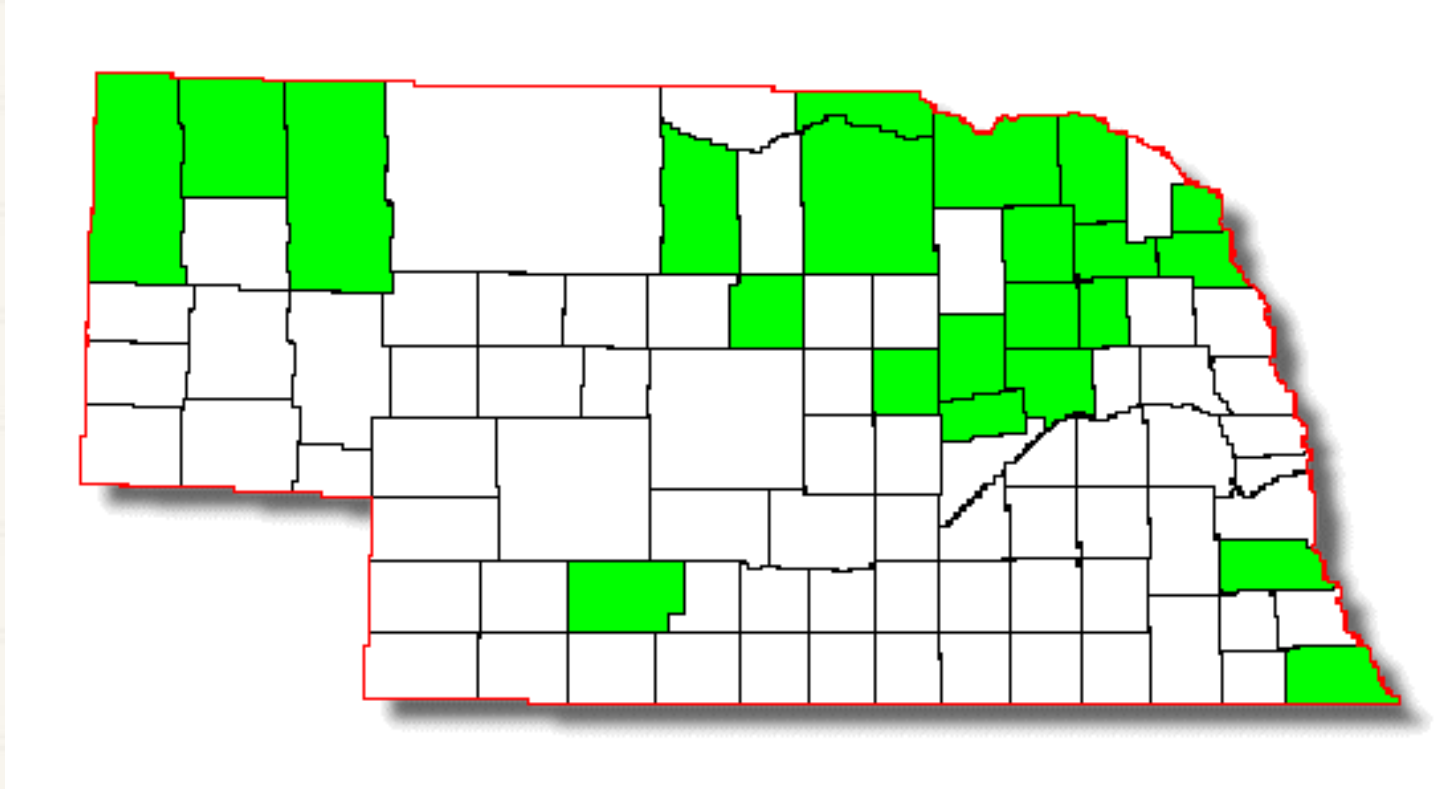
- Early Childhood
- Elementary
- Middle School



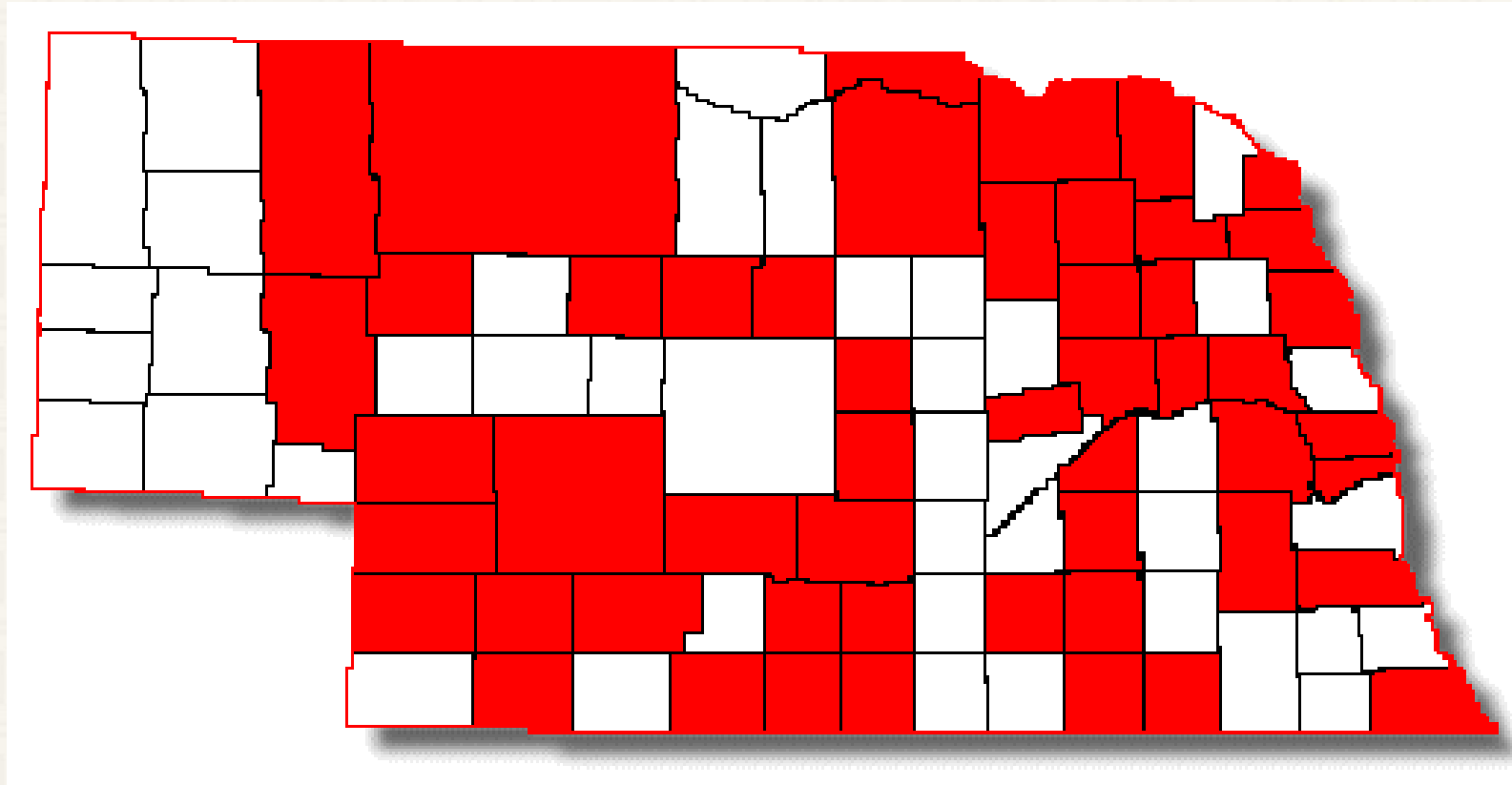
How the Program Works

- Match 4-H curriculum with the Collaborative Summer Library Program theme
- Series of 4 customizable lessons
- Available to libraries, after school programs, 4-H summer camps, schools, youth development professionals
 - Delivered using multiple delivery modes
- Evaluations—Youth, Teacher, Site

Counties that participated in 2014-2015



Participating Counties in 2016



Based upon ES237 Data

Impact

- Reaching a new audience was one of our team's main goals. Over **4,900** youth from **45 counties** across the state participated in the program over the past three years.
- 62 libraries across the state of Nebraska
- 46% had never partnered with Nebraska Extension for youth development programming in the past and 100% of the sites plan on participating in future

Build a Better World



**Lessons
correlate with the
4-H Pledge**

Lesson Plan Format



I Pledge My HEAD.....

2017 4-H STEM Reading Connections
Framework Lesson Plan

Grade Level
Customizable

Lesson Length
60 Minutes

4-H is a community of young people across America who are learning leadership, citizenship, and life skills as they work in partnership with caring adults.

The 4-H Pledge is a key component of every 4-H event. It was written in 1927 and still holds true today.

Our youth are our future scientists, technicians, engineers, and mathematicians. The 4-H Pledge has guided us in the creation of this year's 4-H STEM Reading Connections Program: *Build a Better World*



I Pledge

my HEAD
to clearer thinking.

my HEART
to greater loyalty.

my HANDS
to larger service, and

my HEALTH
to better living, for

my Club, my Community,
my Country,
and my World.

The 4-H STEM Reading Connections Program consists of a series of 4 customizable lesson plans. Each lesson focuses on a different STEM topic and you are able to incorporate early childhood, elementary, and middle school "Building Blocks" to meet your audience's needs.



4-H Pledge

"I pledge my head to clearer thinking..... for my club, my community, my country, and my world."

In using our heads we can think like engineers to design and create objects to make our lives easier and solve real world problems.

Materials List

The Penny Bridge (per group)

- Plain paper
- 5 paper clips
- Ruler
- 2 books or blocks
- At least 100 pennies, metal washers, or other small weights
- Scissors

Preparation

- Read through the "Framework" lesson plan completely.
- Select book titles and "Building Block" components to customize your lesson.
- Gather materials and supplies for your audience.
- Familiarize yourself with the required evaluation components.

#1 Framework Lesson Plan

- Physical Fitness Activity
- Introductory Activity
- Evaluation

#2 Building Blocks Lesson Plan

- Early Childhood
- Elementary
- Middle School

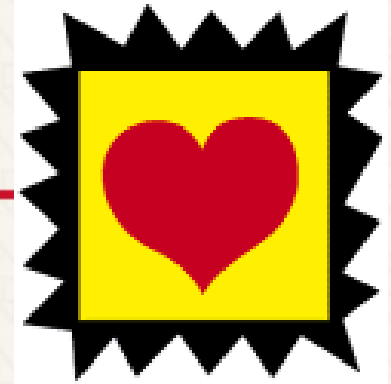
I Pledge My Head...



- **Early Childhood**
 - A House for the Three Little Pigs
- **Elementary**
 - Design Your Own Roller Coaster
- **Middle School**
 - Put a Lid on It—Biomechanical Engineering

I Pledge My Heart...

Heart



- **Early Childhood**

- Community Service Project

- **Elementary**

- Community Scavenger Hunt and Community Map

- **Middle School**

- Landscape Architecture



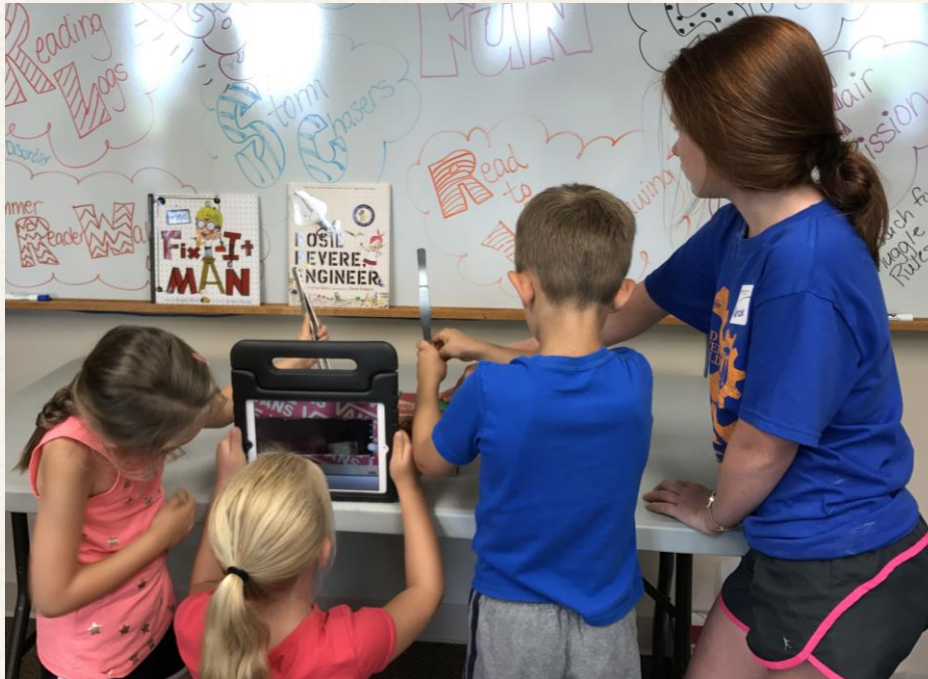
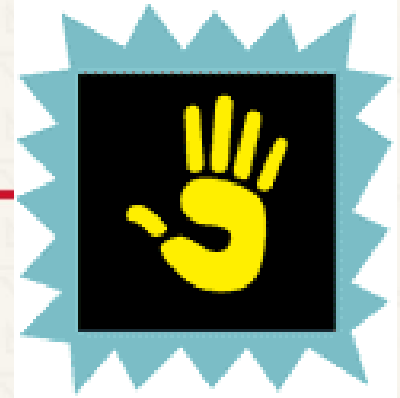
Landscape Architecture

Partnership with the UNL College of Architecture



I Pledge My Hands...

Hands



- **Early Childhood**
 - Create a Story
- **Elementary**
 - Rube Goldberg Machines
- **Middle School**
 - Laparoscopic Surgery



I Pledge My Health



- Early Childhood
 - Exploring Your Own Backyard
- Elementary
 - The Health of Our World
- Middle School
 - Oh Deer!



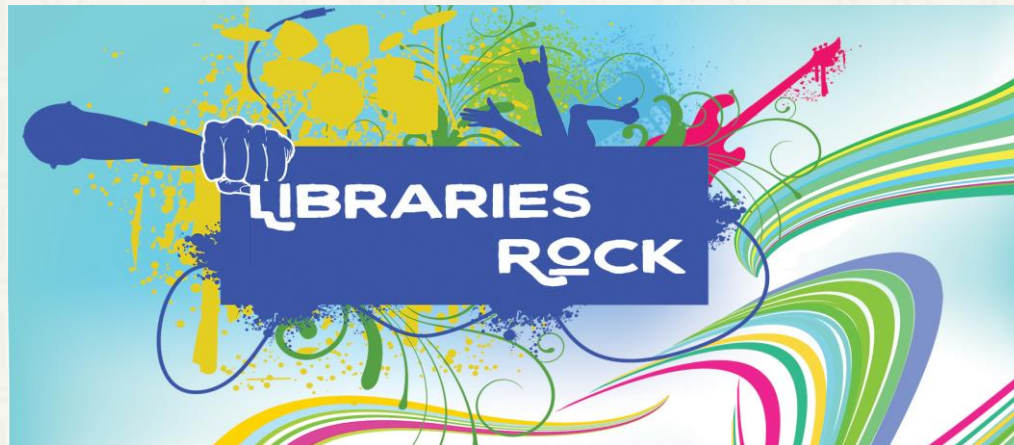
Resources



<https://unl.box.com/s/dlvgeri3q7shw7xaqlnu5c70wv3u7i1>

2018 Collaborative Summer Reading Theme

Libraries Rock (Music)



- Past Themes:
 - 2016: On Your Mark, Get Set, Read!
 - 2015: Every Story Has a Hero
 - 2014: Fizz, Boom, Bang, READ!

Evaluations

- Youth, Teacher, Host Site—Included in BOX

Workshop Evaluation



Additional Questions



Jackie Steffen
Extension Educator
Cedar County
jsteffen2@unl.edu



Jennifer Hansen
Extension Educator
Thurston County
jhansen6@unl.edu



EXTENSION

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