Celebrate NYSD this Month!
4-H National Youth Science Day (NYSD) all October long

Computer Learning Month is held each October to celebrate the opportunities that computers offer youth to develop critical-thinking abilities, academic skills, creativity, and insight into future careers. It is no coincidence that the first day of this month-long celebration is also the kick-off of 4-H National Youth Science Day! #4HNYSD Tell us about your South Carolina NYSD event here: https://bit.ly/2mDCgXn

The 2019 NYSD kit, Game Changers, will feature “Hack Your Harvest,” an unplugged activity where kids learn how to solve & create their own ag-themed logic puzzles to learn about automation, optimal efficiency, and programming. Learn more about the 3-part computer science challenge: http://bit.ly/2nvq1fW

Welcome NYSD Volunteers!
4-H National Youth Science Day
Tuesday-Saturday, Oct. 1-31, 2019
Join the world’s largest youth-led science challenge with NYSD!
No pre-registration required

Welcome NYSD Volunteers!
National 4-H Week
Sunday-Saturday, Oct. 6-12, 2019
Celebrate your 4-H story with others throughout 4-H week!
No pre-registration required

Upcoming Statewide Programs:

**National Youth Science Day**
Tuesday-Saturday, Oct. 1-31, 2019
Join the world’s largest youth-led science challenge with NYSD!
No pre-registration required

**National 4-H Week**
Sunday-Saturday, Oct. 6-12, 2019
Celebrate your 4-H story with others throughout 4-H week!
No pre-registration required

**4-H Day at the SC State Fair**
Saturday, October 12, 2019
All youth and volunteers with active membership cards get in FREE
Contact your local agent

**WHEP Educators Training**
Friday, Nov. 8, 2019
Learn how to lead a Wildlife Habitat Education Program (WHEP) Team
Register by October 25

**4-H Card Art Contest**
Showcase your talents in the 4-H Holiday and Thank You Card Art contest (for ages 5-18 years)
Submit by November 1st

South Carolina State Fair is celebrating their 150th Anniversary this year. The iconic rocket is 50 years old. Since 1997, SC State Fair has donated more than $3 million dollars to SC students. We want to celebrate former 4-H members and allow for a unique opportunity to fellowship with other 4-H Alumni at the South Carolina State Fair at our 4-H Alumni Day at the Fair!!! By registering for this event and showing your ticket at the gate between 11:00 AM and 12:30 PM, you will be granted free access to the fair on Thursday, October 10, 2019. https://bit.ly/2nA7rnA

“4-H has helped me to prepare for many of life’s challenges and joys!”
~ South Carolina 4-H Alumni
Monthly 4-H Club Activity Idea
by Ashley Burns

Animal ID: Design your own Brand

Objective: To explain the history and modern-day use of brands in livestock, build language skills, and express creativity.

Age Range: All ages.

Hands-on Activity: To design, construct, and test a homemade brand.

Life Skills: HEAD – learning to learn, problem solving, decision making; HEART – communication; HANDS – responsible citizenship; HEALTH – self-responsibility and stress management.

Introduction

We put labels on a lot of things that belong to us (clothes, books, luggage, bookbags, dogs, cars, phones, etc.). These labels identify who owns the property and can say something about the property itself. Livestock are often identified with brands. Brands are permanent changes made to the hair of an animal that can be seen from a distance. Brands represent an owner/farm/ranch, a specific animal, or both. Brands have been used by humans and domesticated animals for thousands of years, as depicted in Egyptian tomb art. Today, the location and design of a brand are of equal importance. Brands are typically placed on the hip, shoulder, and/or hindquarters. Brands are registered by their design and their location; therefore, a designed placed on the hip would represent one ranch and the exact same design placed on the shoulder would represent a different ranch. Also, specific numbers in a certain location can indicate the animal’s identity on that ranch. Ex. Cow F008 could have a farm brand on her right hip and her cow number on her left hip. The design of brand can be interpreted and written out based on characteristics included (Figure 1 & 2). The four kinds of marks that a brand can use are letters of the alphabet, numbers, lines/circles, or pictures. They can be used alone or in combination.

The two types of branding include hot branding and freeze branding. Hot branding includes putting hot metal to the skin for a very brief period of time to destroy the hair follicle and prevent hair regrowth. A freeze brand is administered by placing extremely cold metal to the skin to damage the pigment-producing part of the hair follicle, making all hair regrowth white. Freeze brands stand out very nicely on dark-colored animals.

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**Materials**

Markers and paper  
2-4 pipe cleaners (per youth)  
Paint  
Surface to decorate (printout of cow silhouette, paper bag, balloon, etc.)

**Activity Instructions**

1. After discussing brands (their use and interpretation), allow youth to design their own brand on a piece of paper.  
2. Have youth use the brand on the paper as a guide to twist their pipe cleaners into the brand design.  
3. Dip the brand into paint and decorate a surface.  
4. Expansion: If you have time for them to dry, put decorated balloons or cow papers (about 5-10 per youth) into the center of the room and see how long it takes for them to gather their property back up. Simulates free range herds.

**Reflective questions**

- How distinctive was your brand from others?  
- What did you like about this activity?  
- Was there something about this activity you found especially challenging?  
- How would you teach someone about this concept?

**Conclusion**

This activity is a fun way to teach introductory content related to branding and livestock management. Youth get to be creative and put their imagination into action. Branding serves a function in the livestock industry.

**Additional Resources:**

[http://www.tscrabrands.com/design-brand.html](http://www.tscrabrands.com/design-brand.html)


**Quiz yourself: Name the Brand**

1.)  
2.)  
3.)  
4.)  
5.)

**Quiz Answers:** 1.) Circle K; 2.) Running W; 3.) Lazy 2; 4.) Rocking H; 5.) AE or AE Connected.