



WE CU VOLUNTEER

Now Accepting Proposals!!!

For the National 4-H Volunteer Conference

Rock Eagle 4-H Center, Eatonton, GA
September 26-29, 2019 (Thursday - Sunday)



Do you have a successful program or activity(s) that others would benefit from learning?! Consider sharing your experiences and skills with volunteers across the country by submitting a workshop proposal to the National 4-H Volunteer Conference. Don't be intimidated by the title, this conference has a very laidback and friendly atmosphere. Held at Georgia's largest 4-H center, participants at this conference enjoy a very nice 4-H camp setting, hands-on workshops, and time to relax and unwind. Workshop proposals should tie back to one or more of the

following categories:

- Healthy Living
- Civic Engagement
- Science
- Club Management
- Technology Strategies
- Personal & Volunteer Development.

There is a \$30 conference registration discount for one presenter per workshop selected! Priority deadline for proposal consideration is February 1, 2019. Presenters should hear a response by April 1. Learn more at <https://www.4hvcoss.com>

"Making the Best Better!"
4-H Motto

Upcoming Statewide Programs:



Livestock Knowledge College
January 12, 2019

Youth and adults gain multi-species knowledge (for all ages)

Register by Jan. 4th



Healthy Habits Summit
January 25-27, 2019

Teens learn how to be healthy lifestyles leaders in their community

Register by Jan. 8th



Forestry Clinic
February 1-3, 2019

Opportunity to learn about forestry (for ages 9-18 years)

Register by Jan. 18th



Presentations Contests
February 9 (Jr) & March 2 (Sr), 2019

Opportunity for youth to showcase their knowledge (for ages 9-18 years)

Register by Jan. 25th



Junior Weekend
February 8-10, 2019

Use promocode HOLIDAY by Jan. 1 to get \$15 off! (for ages 9-13 years)

Register by Jan. 25th



Honey Bee Project
March to August 2019

Independent-study project to learn about beekeeping (for ages 5-18 years)

Register by Feb. 1st



Senior Teen Weekend
March 1-3, 2019

Use promocode HOLIDAY by Jan. 1 to get \$15 off! (for ages 14-18 years)

Register by Feb. 15th



Engineering Challenge
March 30, 2019

Six different STEM challenges to choose from!!! (for ages 5-18 years)

Register by Mar. 1st



Monthly 4-H Club Activity Idea

By Ashley Burns



5-Minute Engineering Challenges

Objective: To generate interest in the Engineering Challenge and build confidence in STEM

Age Range: All ages

Hands-on Activity: use inexpensive materials to implement a variety of simple challenges

Life Skills: HEAD – planning/organizing, decision making, learning to learn;
HEART – communication, sharing;
HANDS – self-motivation;
HEALTH – character, self-discipline.



Introduction

Science programs provide 4-H youth the opportunity to learn about Science, Technology, Engineering and Math (STEM) through fun, hands-on activities and projects. 4-H programs use hands-on activities in [robotics](#), [rocketry](#), [electrical engineering](#), and [computer science](#) to teach problem solving, creative and critical thinking, and build excitement for engineering and technology. Use the [Experiential Learning Model](#) and Engineering Design Process to reinforce concepts:

- 1.) defining the problem
- 2.) designing solutions
- 3.) optimizing design solution

Additional Resources:

4-H Inspire Kids to Do Activity Guide. 2018. National 4-H Council. <https://4-h.org/inspire-kids-to-do/#main-form>

4-H STEM Lab. 2018. National 4-H Council and NAE4-HA STEM Task Force. <https://4-h.org/parents/stem-agriculture/youth-stem-activities/>

South Carolina 4-H Engineering Challenge Documents. 2018. https://www.clemson.edu/extension/4h/project_areas/science_engineering/index.html

The [South Carolina 4-H Engineering Challenge](#) is an opportunity for youth to showcase their mastery in a particular area of STEM through a fun and safe competitive platform.

Materials & Methods

See the 5-Minute Engineering Challenges on page 3 for materials and method options or other activities in the 4-H STEM Lab under “Additional Resources”.

Conclusion

Science is fun and a great way build confidence of youth in their abilities. In 4-H, our focus is more on the process than the outcome. Even with ‘failure’, lessons are learned and knowledge is applied. Whether it is working as a team or an individual, youth gain skills to help them lead for a lifetime.

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5-minute

Engineering Challenges

T. Ashley Burns, November 16, 2016

Float your Boat

Materials:

- 12"x12" pieces of aluminum foil
- 1" pieces of tape
- weights (crayons, pennies, etc.)
- water containing tub

Objective:

- To apply concepts of buoyancy, water, and physical science and relate it to real-world situations.

Activity:

- Groups receive 1 piece of foil and 2 pieces of tape, which they will use to construct a boat that will hold the maximum weight possible.
- Use weights to test the boats after a predetermined time limit.

Reflection:

- Why did some designs work better than others? How does this relate to the real world? Do you know what a barge is?
- What would you do differently next time?

Strength of Paper

Materials:

- index cards
- books or reams of paper

Objective:

- To apply concepts of physics and test the structural strength of a seemingly weak object.

Activity:

- Groups receive 5 index cards to fold (no glue or tape) to create a base that will hold the maximum weight possible.
- Use books or reams of paper as weights to test the structural strength of the index cards.

Reflection:

- What design did you use and why?
- Did the results surprise you?

Straw Tower

Materials:

- coffee straws or pasta
- marshmallows or gumdrops

Objective:

- To apply concepts of physics and architecture.

Activity:

- Groups receive a set number of straws and marshmallows to construct the tallest tower possible in a predetermined time frame.
- Use a yard stick, string, tape measure, etc. to determine the tallest height.

Reflection:

- What effects did the following have on your tower: design of the base, quality of construction, amount of resources, etc.