



THE UNIVERSITY OF ARIZONA
COLLEGE OF AGRICULTURE & LIFE SCIENCES

Cooperative Extension



CLOVER COMMUNICATOR YAVAPAI COUNTY 4-H NEWS JUNE 2021

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You may view a color copy of this
newsletter online at:

[http://extension.arizona.edu/4-H/
yavapai](http://extension.arizona.edu/4-H/yavapai)

Stacy DeVeau
4-H/STEM
Program Coordinator, Sr.

Shirley Vasovski
4-H Club Program Coordinator

Lisa Gerber
Administrative Associate



- June 3 4-H Ag at Home Animal Projects-Horse Judging. [Register for 6/3](#)
- June 5 Arizona 4-H Youth Foundation Clover Ball. Registration required.
<https://www.eventbrite.com/e/clover-ball-tickets-153681165503>
- June 5 - 9 4-H Summit <https://extension.arizona.edu/events/2021-06-05/2021-4-h-summit>
- June 7 Governor's Youth Commission Application Deadline 2021- 2022
<https://goeff.az.gov/councils-commissions/governors-youth-commission/>
- June 9 Arizona 4-H Presents <https://www.eventbrite.com/e/arizona-4-h-presents-tickets-154049904411>
- June 18 MoYava Camp Application Deadline <https://extension.arizona.edu/events/2021-07-04/moyava-camp>
- June 21 - 26 SaferFoodCats Virtual Summer Program
- June 28 - Arizona 4-H Military Teen Adventure Camp Session 1-Tucson
July 2 <https://extension.arizona.edu/2021-az-4-h-military-teen-adventure-camp-mtac>
- July 1 4-H Ag at Home Animal Projects-Beef Cattle (EPDs)
[Register for 7/1](#)
- July 4 - 8 MoYava Camp - James 4-H Camp
- July 6 - 30 4-H STEM Youniversity
- July 12- 16 J.O.L.T. - James 4-H Camp
- July 19 - 23 Arizona 4-H Military Teen Adventure Camp Session 2-Tucson
<https://extension.arizona.edu/2021-az-4-h-military-teen-adventure-camp-mtac>
- July 28 - 31 Arizona 4-H Military Teen Adventure Camp Session 3-Flagstaff
<https://extension.arizona.edu/2021-az-4-h-military-teen-adventure-camp-mtac>
- August 5 4-H Ag at Home Animal Projects - Working Dogs (Special Edition)
[Register for 8/5](#)

Follow 4-H

State Instagram: [uarizona4h](https://www.instagram.com/uarizona4h)
County Instagram: [yavapaicounty4h](https://www.instagram.com/yavapaicounty4h)
State Facebook: <https://www.facebook.com/arizona4h>
County Facebook: <https://www.facebook.com/YavapaiCo4H>

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Jeffrey C. Silvertooth, Associate Dean & Director, Extension & Economic Development, Division of Agriculture, Life and Veterinary Sciences, and Cooperative Extension, The University of Arizona. The University of Arizona is an equal opportunity, affirmative action institution. The University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, or genetic information in its programs and activities.

RESOURCES & ACTIVITIES

A former member's brother won 2nd place in a state-wide Public Speaking Contest with the poem below back in 1999. I hope it reminds everyone to invite their friends to join 4-H and also to work through the difficult time that sometimes happen.

Members that work through the tough times become stronger and the end result is... we all have more fun!
So, Invite your Friends, Learn how to Problem solve and make the BEST BETTER!!!

A Story of 10 Members

Ten club members standing in line.
One disliked the president and then there were nine.

Nine ambitious members offered to work late. One forgot the promise and there were eight

Eight creative members had ideas as good as heaven. One lost enthusiasm and then there were seven.

Seven loyal members got into a fix. They argued over programs and then there were six.

Six members remained with spirit and drive. One moved away and then there were five.

Five steadfast members wished there were more. One became indifferent and then there were four.

Four cheerful members who never disagreed- until one complained of meetings and then there three.

Three eager members! What do they do? One got discouraged and then there were two.

Two lonely members, my rhyme is nearly done. One joined a sports team and there was one.

One faithful member-feeling rather blue- met with his schoolmate and then there were two.

Two earnest members each enrolled one more, doubling their numbers- now there were four.

Four determined members just couldn't wait until each signed up another, and then there were eight.

Eight excited members signed up sixteen more. In another six verses there'll be a thousand twenty-four!

**MEMBERS-IT TAKES ONE TO GET ONE!
JUST DO IT!**



RESOURCES & ACTIVITIES

Arizona Cooperative Extension has developed a plan to bring back in-person programming in phases. The phases are dependent on several health-related factors with regard to COVID-19 infection and transmission. The plan has been vetted and approved by University of Arizona leadership and began execution on Monday, August 17th, 2020.

Yavapai County is currently in Phase 3

Phase	Extension workforce	Indoor programming	Outdoor programming	Face coverings	Social distancing	Facilities
Phase 3 (Optimized)	Optimized workforce and telework	No size restrictions	No size restrictions	Follow UArizona policy and guidelines	Maintain 6-foot is strongly recommended. Maintain hand hygiene, sneeze and cough etiquette.	Increased cleaning and disinfecting. Common areas open.

HAPPY BIRTHDAY TO OUR 4-H VOLUNTEERS

Sarah Bartelt June 7 Prescott Valley Clovers 4-H Club

Jesse Holyfield June 12 Prescott Valley Clovers 4-H Club



Webinar Series - AZ 4-H Ag at Home: Animal Projects

June 3, 2021 6:00 pm MST AZ 4-H Ag at Home: Animal Projects - Horse Judging [Register for 6/3](#)

July 1, 2021 6:00 pm MST AZ 4-H Ag at Home: Animal Projects - Beef Cattle (EPDs) [Register for 7/1](#)

August 5, 2021 6:00 pm MST AZ 4-H Ag at Home: Animal Projects - Working Dogs (Special Edition!) [Register for 8/5](#)

Recordings of past seminars on Rabbits, Swine basics, Horses, and chickens are available for viewing at <https://extension.arizona.edu/az-4-h-ag-home> . Using the same link, you can also view videos on past webinar recordings.



OUR SUMMER 2021 PROGRAMS

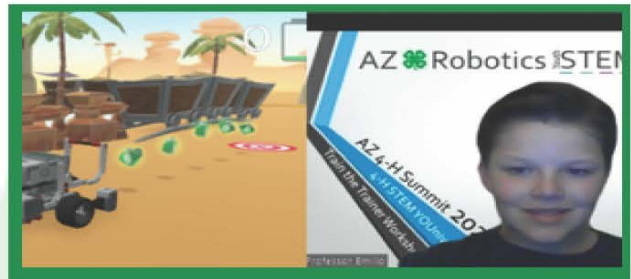
To register go to our Eventpage at:

<https://extension.arizona.edu/events/2021-07-06/4-h-stem-youiversity-summer-camp-2021>



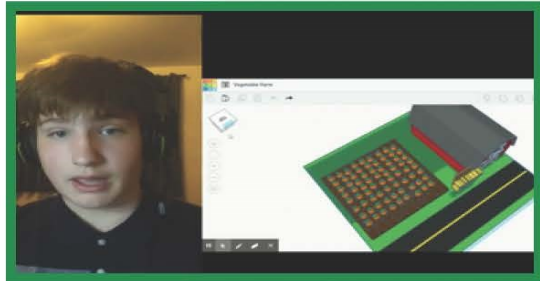
Sustainable Energy Engineering Design (SEED) Camp

DATE July 6th-30th 2021
TIME 1:00 - 4:00pm
Monday - Friday



Robotics Camp

DATE July 6th-30th 2021
TIME 2:00 - 4:00pm
Monday Wednesdays and Fridays



Augmented Reality (AR)/Virtual Reality (VR) Floating Farm Camp

DATE July 6th-30th 2021
TIME 1:00 - 4:00pm
Tuesdays and Thursdays



Underwater Robotics Remotely Operated Vehicles (ROVs)

This program will be offered the following year

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Can hydrogels help the environment?

Water is everywhere – in the sky, in the ground, and in our homes. However, caring for this vital resource is often a challenge for each of us. Conservation means using water wisely. Protecting our groundwater is important because it is a source for drinking and irrigation. Consequently, scientists and engineers have developed amazing, superabsorbent polymers, called **hydrogels**, that can help.

In this investigation, you will look at a particular hydrogel that is secretly at work in millions of households across the country...

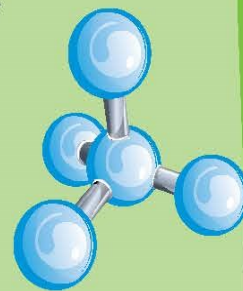
Materials:

- Disposable diaper
- Water
- Newspaper
- Scissors
- Measuring cup and measuring spoons
- Zipper-lock bag; 1 gallon size
- 9 oz. plastic cup

Time Requirement: 20 minutes.

A **polymer** is a long chain of molecules. Polymers are all around us, and they make up materials like bicycle helmets, CDs, tires, plastic water bottles, rubber bands, and glue. This experiment focuses on special kinds of polymers that are superabsorbent: hydrogel polymers.

Hydrogel polymers are long molecule chains that grab onto water molecules. Some can soak up as much as 500 times their weight in water! This superabsorbent characteristic makes hydrogel polymers useful in water conservation and in solving other environmental issues.



Check out the expanded National Science Experiment at www.4-H.org

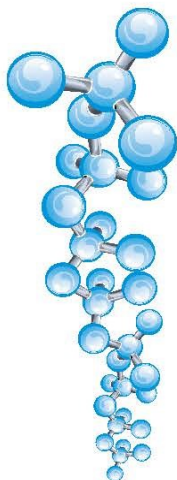
CLOVERBUD ACTIVITIES



National Science Experiment

Collect a sample of hydrogel from the cotton and plastic lining of a disposable diaper.

1. Place a new diaper on the piece of newspaper. Carefully cut through the inside lining and remove all the cotton-like material. Put all the stuffing material and plastic lining into a clean, 1 gallon zipper-lock bag.
2. Scoop up any of the powdery material that may have spilled onto the paper and pour it into the bag with the stuffing. Blow a little air into the bag to make it puff up like a pillow, then seal the bag.
3. Shake the bag for a few minutes to remove the powdery hydrogel polymer from the stuffing. Notice how much powder falls to the bottom of the bag.
4. Carefully remove the stuffing and the plastic lining from the bag, and check out the powdery polymer left in the bag. Repeat steps 1-4 with another diaper, if needed, to get 1 teaspoon of the hydrogel powder. *(For larger groups, you can purchase the powder at www.4-H.org)*
5. Now it's time to mix the powder with water to see what happens. Pour 1 teaspoon of hydrogel powder into a 9 oz. plastic cup. Measure $\frac{1}{2}$ cup of water, and pour it into the cup along with the powder.
6. After about 30 seconds, observe that the water has changed — it's no longer a liquid... it's a gooey solid!



Take a closer look at the gel by scooping up some of the gel with your fingers. You can poke holes in it and even tear it into smaller pieces. This hydrogel is safe and non-toxic, so you can touch it, but remember: even safe chemicals never go into your mouth, ears, eyes, or nose! *(For full safety precautions, visit www.4-H.org and download the experiment safety guide.)*

Things to think about...

- How does this water-slurping powder work? Does it only absorb water?
- How much water will the average diaper absorb?
- What would happen if you let the gel dry out? Is this powder reusable?
- Besides diapers, how else could this powder be used?
- How does the absorbency of the hydrogel compare with other materials that are absorbent: cotton balls, paper towels, sponges?
- How could adding other ingredients (like salt) affect a hydrogel's water-absorbing properties?

So what's next?

Hydrogel technology, of which there are many different types, lends itself well to an unlimited number of agricultural and domestic applications. For example, certain growers have learned that by adding hydrogels to the soil in the right proportions, crops easily survive on sixty to eighty percent less water. Today, hydrogels are widely used in such applications as forestry, gardening, and landscaping as a means of conserving water.

Go to www.4-H.org to share your thoughts, find more information, try the expanded student version of the National Science Experiment, and join a discussion on the potential impact of hydrogels as well as environmental issues relating to water conservation and groundwater contamination. 4-H, part of the Cooperative Extension System of the United States Department of Agriculture and the 106 Land Grant Universities across the country, has been educating youth on agriculture and the sciences for over 100 years—and we have lots of ways for youth to explore, engage, and get inspired by science!

A special thank you to the following for their support, expertise, and creativity in designing the 2008 National Science Experiment: Dr. Bob Horton, 4-H science education specialist for The Ohio State University Extension and his team members Carol Warkentien and Jeanne Gogolski; Steve Spangler, science author, teacher and TV personality, and the Steve Spangler Science experiment design team; and members of the 4-H Science, Engineering, and Technology Leadership Task Force who draw knowledge from ten Land-Grant Universities across the country. Copyright © 2008 National 4-H Council. 9/08-PDF-MKT01. The 4-H Name & Emblem is protected under 18 USC 707.