THE UNIVERSITY OF ARIZONA
COLLEGE OF AGRICULTURE & LIFE SCIENCES
Cooperative Extension

CLOVER COMMUNICATOR
YAVAPAI COUNTY 4-H NEWS
MAY 2020

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You may view a color copy of this newsletter online at:
http://extension.arizona.edu/4-H/yavapai

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Shirley Vasovski
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Date	Event
May 6	STEM YOUniversity Youth Counselor Opportunity Registration Deadline https://extension.arizona.edu/events/2020-06-01/az-4-h-summit-2020
May 11 - May 22	STEM YOUniversity Youth Counselor training 3:30 PM - 5:30 PM
May 15	AZ 4-H Virtual Summit Registration Deadline https://docs.google.com/forms/d/e/1FAIpQLScmbDfaGRUDzaztZTQyHmhnzxEnKXIPhnlphCjySzhED_QyJQ/viewform
May 15	Nominations due for AZ 4-H Presents Awards https://extension.arizona.edu/events/2020-06-02/az-4-h-presents
June 1 - June 3	AZ 4-H Summit Senior Experience 12 PM - 4 PM
June 1 - June 26	AZ 4-H Summit Intermediate Experience Mondays/Wednesdays/Fridays 1:00 PM - 3:00 PM

As most of you know, all University of Arizona Cooperative Extension Offices are closed until further notice. All face to face programs have been suspended through July 31 due to COVID-19 coronavirus.

The University has a few resources you may be interested in about COVID-19:
Parent Information Sheet

Talking to Children about Coronavirus: Eight Steps for a Successful Conversation

Comic books about COVID-19 coronavirus
Exploring the New Coronavirus

VIRTUAL 4–H ROBOTICS CAMP 2020

Youth (ages: 11–13 or rising 6th–8th grade students)

Register By: May 15, 2020
For AZ 4–H Summit & 4–H STEM YOUniversity

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EMBARK ON A JOURNEY AT 4–H STEM YOUniversity

YOUR PATH

1. Register by **May 15, 2020** (see link below)
   a. **Upon verification of 4-H membership and good standing**, you will be notified via email by May 20, 2020 and follow additional steps
   b. You will then be sent an **Eventbrite** link to pay a registration fee of $50 by May 22, 2020. Your county may be able to offer some financial assistance. Please contact your county 4-H office regarding assistance
2. Attend virtual AZ 4-H Summit and 4-H STEM YOUniversity events
   a. **June 1-3, 2020:** AZ 4-H Summit kick-off and evening events
   b. **June 1-26, 2020 (tentatively M, W, F from 1-3 p.m.) mandatory sessions**
   c. To learn CoderZ Cyber Robotics 101 Curriculum (curriculum to be offered in both English and Spanish)
3. See following pages for more information about CoderZ, equipment minimum requirements, and curriculum

Register at:
https://extension.arizona.edu/az-4-h-summit

For any inquiries, call Jerry Lopez at (520) 834-2795

What is CoderZ

CoderZ is an innovative and fun learning platform for students worldwide to engage in robotics, computer science, and STEM to foster 21st century skills. Using simulated 3D virtual cyber robots, students learn Science, Technology, Engineering and Mathematics while engaging in challenging tiered missions that develop creativity, critical thinking, collaboration and an appreciation for technology.

For additional information: https://gocoderz.com/coderz_cyber_robotics101/

CoderZ Equipment Minimum Requirements

OS
- Windows 7 and up
- OS X 10.9 Mavericks and Up
- Chrome OS (Chromebooks)
- Ubuntu 16 and up

Browser
- Latest Chrome browser 64 bit

CPU
- i5 or similar; recommended 64 Bit architecture

RAM
- 4 GB; recommended 8 GB

Screen Resolution
- 1280 width or more

Internet Connectivity
- High Speed / broadband connection (15 Mbps); wired connection is preferred

White-lists
The following two domains should be white-listed in both email servers and firewalls for optimal performance of CoderZ:
- CoderzWorld.co
- GoCoderz.com

Curriculum: Cyber Robotics 101

Description: Cyber Robotics 101 is a flexible learning program for educators to introduce students to the core concepts of code development and robotics. Students will learn mechanics, navigation, sensors and more while being introduced to programming components like commands, variables, conditional logic, loops, smart blocks (functions) and more

Skills Covered

Session 1 - Intro to STEM and CoderZ Overview of STEM and the CoderZ learning environment.

Session 2 - Basic Navigation I Learn about drive systems and how to navigate your robot using computer code.

Session 3 - Basic Navigation II More advanced navigation using computer code.

Session 4 - Object Detection I Learn how to use the Robot's touch sensor for autonomous navigation using basic coding blocks.

Session 5 - Repeat Loops Learn how to code more efficiently with the Repeat loop.

Session 6 - Gyro Turns Make accurate turns using data from the Gyroscopic sensor.

Session 7 - Gyro Reset Advanced Gyroscopic sensor use and use of reset gyro.

Session 8 - Domino Creations Use all your creativity and imagination with all you've learned and take on a fun challenge that puts your skills to the test.

Session 9 - Challenge Missions I Apply all you've learned so far and take on an advanced challenge that puts your skills to the test.

Session 10 - Object Detection II Learn how to avoid obstacles by sensing them from afar using the Ultrasonic sensor.

Session 11 - Color Detection Sensor The robot can detect colors on the floor and use them to make better decisions.

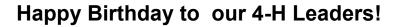Session 12 - Challenge Missions II More advanced challenges put students' skills to the test.

Session 13 - Object Manipulation Control the robot's arm to interact with objects in the scene and solve complex challenges.

Session 14 - Decision Making Use the sensors so your robot can take informed decisions.

Session 15 - The Ultimate Challenge Implement all you've learned in a series of complex challenges.

RESOURCES & ACTIVITIES

Happy Birthday to our 4-H Leaders!

April Frank	May 1	Chino Valley Breakaway Latigos 4-H Club
Jason Hamilton	May 11	Skull Valley Trailblazers 4-H Club
Elini Vilardi	May 15	Prescott Valley Clovers 4-H Club
Angela Teskey Peterson	May 18	Lonesome Valley Wranglers 4-H Club
Katie Polacek	May 19	Tri-City Livestock 4-H Club

More resources for keeping 4-H'ers and Cloverbuds busy.

We have provided some resources and activities to keep our 4-H members and Cloverbuds busy and engaged. We hope you enjoy them.

https://4-h.org/about/4-h-at-home/   *4-H At Home,* launched by National 4-H Council, is an on-line compilation of the system's virtual resources including: activities and experiments, virtual learning, video, other resources

https://www.sciencebuddies.org/blog/covid19-online-learning-STEM-activities   Simplified STEM activities to help fill the gap for online learning

https://www.mastersindatascience.org/blog/the-ultimate-stem-guide-for-kids-239-cool-sites-about-science-technology-engineering-and-math/   Master's in Data Science - The Ultimate STEM Guide for Kids: 239 Cool Sites About Science, Technology, Engineering and Math

https://nationalzoo.si.edu/education/educational-activities-you-can-do-home   Smithsonian's National Zoo & Conservation Biology Institute has animal webcams, activities, etc.

https://animalcenter.org/programs-services/education/virtual-field-trips   Virtual field trips, learning library, education exploration and activities to do at home.

https://www.agweek.com/business/agriculture/5005028-Check-out-these-online-agriculture-experiences-for-students   Agricultural animal experiences for students

https://www.thebackyardbonanza.com/?utm_source=Next+Level+Livestock+Camps&utm_campaign=ee42edc34e-CHIMP_BB_NXTLVL_4_26_20&utm_medium=email&utm_term=0_acf97d2dd5-ee42edc34e-266834401&mc_cid=ee42edc34e&mc_eid=9f02565fab   Next Level Virtual Show Schedule

4-HBiosecurity_04-13-20   4-H Rabbit Biosecurity - Rabbit Hemorrhagic Disease Information

If there are any students struggling with a specific subject in school, needs extra help on AP subjects, or would like any extra ACT/SAT tutoring, the literacy initiative is providing a free virtual tutoring program. More information and registration can be found on our website at literacy-initiative.org/eTutoring.

Weave a Flag

Materials needed:

1. Copy of 4-H flag template for each 4-H Cloverbud member. This should be copied onto white paper or white card stock. White card stock works better. You could also glue white paper onto a piece of construction paper.
2. Green crayons.
3. Yellow or gold yarn. Each member will need 8 feet to complete one flag.
4. Yard stick or measuring tape.
5. Scissors.
6. Hole punchers.
7. Masking tape.

Instructions:

1. Have Cloverbuds use a hole puncher and punch-out each black dot around the edge of the flag.
2. Use a green crayon and color the clover.
3. Give each Cloverbud an 8 foot piece of yarn. If you find that 8 foot is too much yarn for them to manage, it can be cut into smaller pieces and then tied back together during the weaving process.
4. Help the Cloverbuds tape one end of the yarn to the back of the flag. It is best to tape this close to edge where they will begin weaving.
5. On the other end of the yarn, wrap a small piece of tape around the yarn to help stiffen the yarn. This will make weaving easier for the Cloverbuds and keep the yarn from fraying.
6. Now begin weaving. Start by bringing the yarn up through the hole closest to where it is taped. Snug all the yarn up through the hole. Again, weave the yarn up through the next hole and snug. Continue doing this until the outside of the flag is woven.
7. When weaving is complete you might need to help the Cloverbuds "re-snug" the yarn. Then snip off any extra yarn and tape it down the end on the back of the flag.
8. Make sure the Cloverbuds put their name on the back of the flag.

Developed by: Bruce Zimmer, Extension Educator, 4-H Youth Development
                 Ohio State University Extension, Monroe County, Ohio 12/05

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