

# 2024 State 4-H Conference Workshop and Tour

## Descriptions

**4-H Water Fun-** Cool off from the July heat with your State 4-H Officers.

**Are You College Ready?** - This workshop is designed to help you navigate the essential skills, behaviors, and knowledge needed to succeed from your first year of college all the way to graduation. We will cover a range of topics, including academic preparedness, personal development, and practical life skills. Whether you're just starting college or just barely starting high school, this workshop will provide valuable insights and strategies to help you thrive.

**Artificial Intelligence and Virtual Fencing-** Artificial intelligence coupled with new sensor technology and communication systems is transforming the future of rangeland management, ranching, and the livestock industry. If you are pursuing or considering a future career in the Rangeland agricultural technology or livestock sector, then this 1-h hands-on workshop is for you!

**Business opportunities in Agriculture and Natural Resource Industries-** Participants play a game that will explore careers and they will discover business opportunities in Agriculture and Natural Resource Industries.

**Fireflies and Food Safety-** The workshop will give participants an opportunity to use ATP bioluminescence swabs to monitor the cleanliness of surfaces. The swab uses an enzyme (luciferase) from fireflies to determine the levels of ATP on surfaces, which is an indicator of cleanliness.

**Food Safety and Plating Techniques with The School of Hotel, Restaurant and Tourism Management-** Learn about the importance and basics of food safety and knife skills with Chef Instructor, Pete Mitchell, and try your hand at the decorative side of plating and techniques used to make the restaurant experience something special.

**Harvesting Horizons: Exploring Research Opportunities & Federal Agricultural Careers-** Dive into the dynamic world of federal agricultural science careers and discover how mastering the scientific method can be a key to transforming your career trajectory. Guided by funding from the U.S. Department of Agriculture at NMSU, this workshop will help you identify connections with federal agricultural agencies, unlock popular internships, and cultivate a robust professional network. Uncover unique research opportunities that will not only set you apart when applying for jobs, scholarships, and awards, but also redefine your future in agriculture. Join us on this fun and transformative journey to harvest the horizon of agricultural careers.

**Healthy Soil for Crop Production-** Participants will be able to understand the composition and importance of healthy soils including their physical, chemical, and biological properties. Participants will learn about sustainable gardening/farming practices that promote healthy soils such as applying organic amendments, and planting cover crops. Participants will also engage in hands-on activities related to soil and plant measurements.

**Homemade Water Filter-** Curious kids who want to learn about the importance of water filtration and purification can try this fascinating experiment. They will construct their own water filter using common household items and learn how crucial this procedure is for safe, clean, and healthy water. This entertaining and instructive opportunity will help participants understand the steps. We can also make a presentation to show how water filtration is done professionally and the impact it makes on our communities. Indian Resources Development brainstormed different ideas for the workshop, but we agreed on this water filter project because we feel it incorporates the “learning by doing” component of 4-H.

**How To Make “How-To” Media-** Much of what we see on our social media feeds are “how to” guides. 4-Hers are great at giving demos: and this workshop will help them turn their demo skills into well-crafted how-to guides that users will love. Join our Extension social media specialist in the process of "how-to" media creation, learning the importance of clarity, simplicity, and visual aids. Whether it's through photos, videos, or written guides, you'll leave with the skills to create your own how-to media that can educate and inspire others.

**How to Make Ag-mazing Goat Milk Soap!** - Would you like to learn how to make some Ag-mazing goat milk soap? You're in the right place! In this hands-on workshop, participants will master the art of crafting goat milk soap from scratch. Guided by 4-H members, participants will explore the fascinating process of combining natural ingredients to create a nourishing and fragrant product to take home. Additionally, participants will discover how this soap-making process is integrated into everyday agriscience and how agriscience contributes to our daily lives.

**Legos!**- Join us for an engaging and interactive workshop where students will enhance their communication, creativity, and data representation skills through the fun and educational activity of LEGO Infographic Storytelling. This workshop combines the tactile joy of building with LEGO bricks with the critical skills of analyzing data, visualizing information, and crafting compelling stories. It provides a dynamic platform for students to practice essential skills in a supportive and enjoyable setting, making complex concepts like data representation both accessible and fun.

**Rural First Aid** – What to do when you are the First Responder- Participants will learn how to be prepared in case of an emergency. Skills taught include “Hands Only CPR”, “Stop the Bleed” training, and then students will have time to practice these skills. Another center within the training session will include small group activities focused on identifying problems and safety risks frequently encountered in rural America. Information on disaster preparedness and agricultural safety will be shared with participants, along with information on where to pursue further certification for emergency preparedness.

**Time is Ticking**- Compete in a series of challenges with our team, fastest times win! This workshop is presented by your State 4-H Ambassadors!

**4-H for Life**- Come learn from the NMSU Collegiate 4-H chapter about how the skills they gained 4-H has helped them thrive in their college career.

**Self Defense**- Come learn basic skills that everyone should know for self-defense.

**Santa Theresa Border Crossing Tour**- Join us for a tour of the Southern Border at the Santa Teresa port of entry! The tour will include two stops, one at the nation's largest cattle crossing and the New Mexico Port Authority. This tour will give you an in depth look at how cattle and other agricultural commodities are imported and exported from Mexico to the U.S. You will get a firsthand look at safety processes and protocols involving safe and efficient cross-border trade from the individuals working for Customs and Border Protection. **This tour will run from 9:00-12:30 on Wednesday.**

**Spaceport America Tour**- Come visit the world’s first purpose-built spaceport located just outside Truth or Consequences. The FAA-licensed launch complex has a rocket friendly environment of 6,000 square miles of restricted airspace, low population density, A 12,000 feet x 200 feet (3658 m x 61 m) runway, vertical launch complexes, and about 340 days of sunshine and low humidity. Some of the most respected companies in the commercial space industry are tenants at Spaceport America, regularly using the complex for testing and launches. **This tour will run from 9:00-12:30 on Tuesday.**

