

Tuesday News



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4-H Volunteers for
Your Continued
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4-H 

WASHINGTON STATE UNIVERSITY
EXTENSION

Tuesday News – April 18, 2023

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Features

Special Spring Dog Meeting Set For April 22

A special spring dog meeting will be held on Saturday, April 22nd at 4:00 pm via ZOOM. The agenda items and most likely decisions made by county voting delegates, are as follows:

1. Outstanding agility proposals from last meeting
2. Showmanship Questions
3. Jump heights for open and utility to $\frac{3}{4}$ of dog height

For questions about the agenda—please contact Chip Taylor, State Dog Committee chair at jesse@nventure.com

The zoom link is: <https://wsu.zoom.us/>

Meeting ID: 940 3486 9780

Date & Time: Apr 22, 2023 04:00 PM Pacific Time (US and Canada)

Important Note: Both internal and external WSU meeting attendees must be signed into Zoom to join the meeting.

Join from PC, Mac, Linux, iOS, or Android: <https://wsu.zoom.us/j/94034869780>

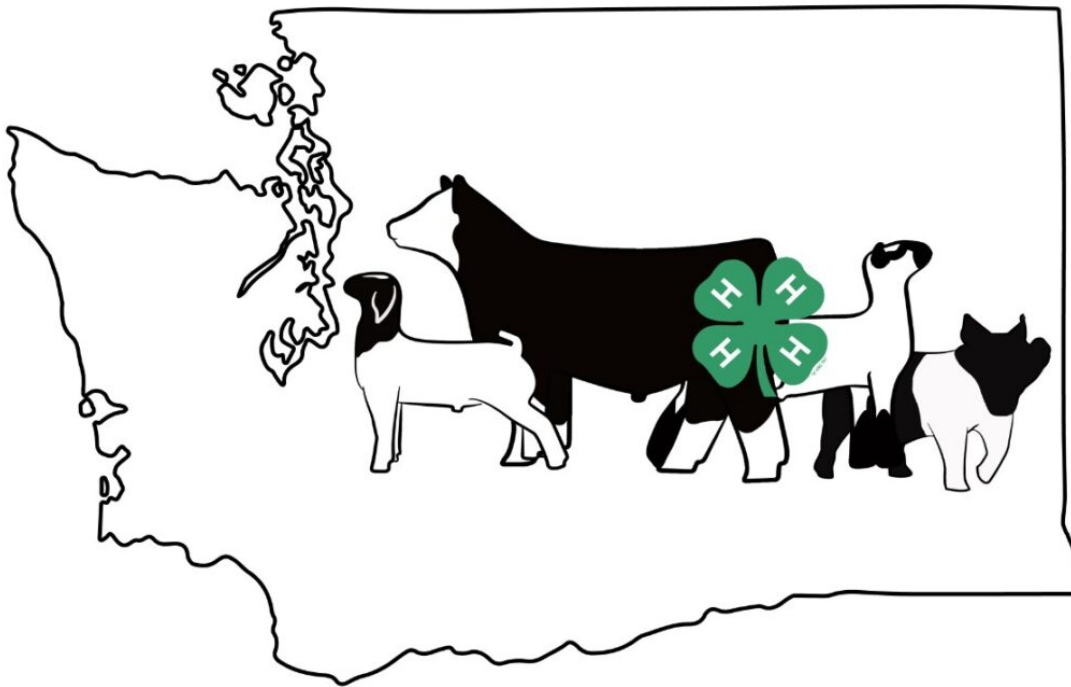
Phone Call (long distance)

+1 253 215 8782



Submitted by Jennifer Leach, 4-H Faculty Liaison State Dog Committee

2023 Washington 4-H State Livestock Judging Contest Update



The 2023 Washington 4-H State Livestock Judging Contest is scheduled for June 24, 2023, and will be held at the Ardell Pavilion, centered on the Grant County Fairgrounds. Contest guidelines and rules with NEW for 2023 updates are linked in this article and are up for viewing on the Washington 4-H website.

Additionally, the travel guidelines document and fillable registration forms specific to Junior, Intermediate and Senior contest registrations are linked below. Again as in 2022, the 2023 contest has NO Requirement for Qualifying, just come and participate.

This will be our second year hosting the Livestock Judging Contest at the Grant County Fairgrounds in Moses Lake, WA. The committee is looking forward to another successful contest year. In 2022 we had three senior teams that traveled to national 4-H contests representing the Evergreen state.

New for 2023:

- There will be a registration deadline this year for early registration. **June 9, 2023** – all registration materials signed by the county extension professional (specialist, educator, coordinator, administrative, etc.) will be due by end of day to qualify for early registration fees (\$15/team; \$5/individual). Late registrations will be accepted with a late fee charged (\$10/individual). All fees (check, credit or cash) will be collected the day of the contest.
- Teams and coaches will need to be prepared to identify the contests they would like to travel to by the end of the state contest. If the first place team has not determined that when asked then they will forfeit first choice and so on. So – coaches and parents PLEASE be prepared before you come to the contest to compete.
- Also new will be a dress code (see guidelines appropriate dress). Key no hats, torn or ripped or frayed jeans, no shorts, and no t-shirts with graphics or written sentiments.

Registrations will need to be sent to Robert.kestell@wsu.edu and CC pskuber@wsu.edu by end of day June 9, 2023. Late registrations will be charged a late registration fee. Any questions about the contest? Please contact Paul Kuber pskuber@wsu.edu.

Document Links:

[2023 Livestock Judging Contest Rules and Guidelines](#)

[2023 Livestock Judging Team Travel Guidelines](#)

[2023 Livestock Judging Registration Form – Intermediate](#)

[2023 Livestock Judging Registration Form – Junior](#)

[2023 Livestock Judging Registration Form – Senior](#)

See you on June 24th!



WASHINGTON STATE UNIVERSITY
EXTENSION

Paul S. Kuber, Ph.D.

Associate Professor

State 4-H Agri-Science Specialist

Northeast Region Livestock and Forage Specialist

Washington State University Extension

222 N. Havana St. Spokane, WA 99202

W: 509-477-2185 C: 614-302-1600 pskuber@wsu.edu

“Cougs Give” Fundraiser Update

Denise Echelbarger



The WSU Extension 4-H Youth Development program is very appreciative of Mary Kohli's support of the 2023 #CougsGive event. It is so heartening when we receive a gift from a generous donor that allows us to say “yes” to one more 4-H member, club, or learner engaged event. All kids deserve a place to belong and a chance to unlock their full potential.

I am thrilled to inform you that \$2,125 was donated and the match of Mary Kohli's \$500 unlocked for a total of \$2,625 for WSU Extension 4-H Youth.

THANK YOU!



Mary Kohli



4-H Service Opportunity – Scholarship Committee

Denise Echelbarger



A 4-H Scholarship Committee Member is Needed

UPDATE!

Due to overwhelming response to our request, our opening on the Scholarship Committee has been filled!

Thank you all for your interest in service to Washington State 4-H!

Celebrating Some Amazing Teens!

Jennifer Fees

Six Youth Advocates for Health (YA4-H!) Teens as Teachers attended the National Ignite by 4-H Conference on Healthy Living, Agri-Science, and STEM March 7-12, 2023. These six teens will be bringing information back to Washington State as workshops and a state-wide service project called Kind Care Kits which will contain social-emotional activities for siblings who have a brother or sister who is sick and spending time at Ronald McDonald House and Children's Hospital locations across our state.

These advocates will be highlighted here over the next few months!



Stella Marsh has been involved in Spokane County 4-H for 5 years. She is currently president of Corral Critters, where she has been participating in horse project. In 2021 she joined the Youth Advocates for Health (YA4-H!) where she has blossomed into a dedicated Teen Teacher. Stella attended the 2022 National 4-H Healthy Living Summit and the 2023 National Ignite by 4-H conference as a Youth Advocate for Health, representing Washington State. Recently she joined the planning committee for the 2022 WSU 4-H Teen Conference. Stella is an enthusiastic hard worker.



Taegan Flake joined the Spokane County Youth Advocates for Health (YA4-H!) when she was 13 years old and has been extremely involved ever since. During those 4 years, she has been a part of the Teens as Teachers cadre, teaching nutrition and healthy habits to local elementary-age youth. She also participated in a one-year grant research project called Youth Participatory Action Research (YPAR) where she and other teen interns became researchers about opioid misuse and our community. Taegan attended the 2022 National 4-H Healthy Living Summit and the 2023 National Ignite by 4-H Conference as a Youth Advocate for Health, representing Washington State. Taegan is dependable and reliable. She always follows through with everything she signs up for. Taegan serves on the WSU 4-H Teen Conference planning committee.

Washington State 4-H Teen Conference Registration is Now Open!



Washington State 4-H Teen Conference 2023 is open for registration!

Registration for 4-H members will take place in 4-H Online

<https://v2.4honline.com/#/user/sign-in> in events.

Registration cost is \$295.

We have some amazing workshops lined up and we expect many of them to fill up. So, you'll want to register as soon as possible so that you get your first choice in workshops. On April 24, we will open registration up to those not enrolled in 4-H and to other WSU youth programs. At that time, a paper/fillable registration form will be made available. Please see the WA State 4-H website for details, including workshop descriptions, for this conference.

The Teen Conference page is [HERE](#).

Kelly Stewart
WSU Extension 4-H Program Coordinator

Practice Horse Judging Contests Available Online!

See below about two on-line Practice Horse Judging contests that would be great for your 4-H or FFA Horse Judging teams. Each course is only \$20 with unlimited access for 90 days (from your date of enrollment). Each contest has 6 classes with 2 halter and 4 performance.

There are questions, officials, and critiques at the end of each class. Follow the links below or QR code to enroll.

HORSE JUDGING PRACTICE CONTEST

PRESENTED BY:

horseIQ™
E|H
EXTENSIONHORSES.ORG

Two Different "Courses" each with 6 practice classes!
Includes: Questions, Officials, and Critiques

ENROLLMENT COST: \$20/COURSE
(UNLIMITED ACCESS FOR 90 DAYS FROM ENROLLMENT)

ENROLLMENT LINKS:

PRACTICE JUDGING 1:

<https://catalog.extension.org/product?catalog=HorseJudgingContest>

PRACTICE JUDGING 2:

<https://catalog.extension.org/product?catalog=1676909671DNE4F>

CLASSES IN HORSE JUDGING PRACTICE 1:

1. AGED STOCK TYPE GELDINGS
2. PERFORMANCE MARES
3. HUNTER UNDER SADDLE
4. TRAIL
5. WESTERN RIDING
6. RANCH RIDING

CLASSES IN HORSE JUDGING PRACTICE 2:

1. PERFORMANCE HALTER MARES
2. PERFORMANCE HALTER GELDINGS
3. TRAIL
4. WESTERN PLEASURE
5. RANCH PLEASURE
6. HUNT SEAT EQUITATION



Practice Judging 1 Live

Link: <https://catalog.extension.org/product?catalog=HorseJudgingContest>

Practice Judging 2 Live

Link: <https://catalog.extension.org/product?catalog=1676909671DNE4F>



Dr. Kathy Anderson, PhD

Professor, Extension Horse Specialist

University of Nebraska–Lincoln

Animal Science

ANSC C-204

Animal Science

Lincoln, NE 68583-0908

[402-472-6414](tel:402-472-6414)

KAnderson1@unl.edu

Facebook: [UNLhorse](https://www.facebook.com/UNLhorse)

<https://animalscience.unl.edu/horse>

Submitted by Jennifer Leach, 4-H Faculty Liaison State Horse Committee

Fashion Industry Conference Coming to Central Washington University April 22



The Fashion Industry Conference will be coming to CWU in April. This conference is normally held in Seattle, but they have decided to bring it to CWU this year for a more central location. The date of the conference is April 22nd.

They are excited about the opportunity to invite 4-H kids to the conference and to potentially participate or show off their work.

https://fashionconference.wixsite.com/seattle?fbclid=IwAR3QgD-QcWx_LaB7lv9Mm4SI8lt7bKLCuzHXSM0dFJyZAxQ08qWmVSnWRhl

The deadline for ticket purchase is April 18!

If you have any youth interested in participating, they only need to have a passion for the Fashion Industry, they do not need to be enrolled in sewing or other specific projects. Also, if you have any adults that would be interested in presenting at the conference they would love to have someone who could present something specifically for the youth. If you know of anyone please contact Amy (information below) for details.

Amy Alder
4-H Youth Development Program Manager
WSU Extension – Kittitas County
(509) 962-7565 – Office
(509) 388-2588 – Cell

State 4-H Ambassadors Present the 4-H Youth of the Month for April!

The Washington State 4-H Ambassadors recognize the 4-H Youth of the Month honoree for April, **Berklie Sheppards of Asotin County!** The Ambassadors are proud to highlight 4-H youth monthly throughout the year!

 <p>4-H YOUTH OF THE MONTH</p> <p>Berklie Sheppards</p> <p><i>Senior Asotin County</i></p> <p>PROJECTS:</p> <p>Rabbits, Dog, Junior Leader</p> <p>Washington State 4-H</p>	<p>Berklie Sheppards</p> <p><u>Favorite Part About 4-H:</u> Everything...Berklie is so thankful for how 4-H has taught her people skills, knowledge about different types of animals, and responsibility. Fair is her favorite time of year, mostly because it's when she feels closest to her 4-H and FFA community.</p> <p><u>Years in 4-H:</u> She has been in 4-H since first grade—9 years!</p> <p><u>Past Projects:</u> Berklie has done it all, from showing pigs, goats, steer, cats, and horses to sewing and cooking.</p> <p><u>Favorite Hobbies:</u> Outside of 4-H, she loves art, reading, and calligraphy, and is obsessed with cooking.</p> <p><u>Favorite Book:</u> The Twilight Saga series</p> <p><u>Favorite 4-H Memories:</u> Berklie fondly remembers helping out at 4-H summer camps starting when she was in third grade.</p> <p><u>Favorite Food:</u> Pumpkin pie</p> <p><u>Future Career:</u> Berklie is considering a career in the field of engineering.</p> <p><u>Project You'd Like to Do:</u> She would like to pursue a project involving breeding and genetics.</p> <p><u>Favorite Vacation:</u> Cody, Wyoming</p> <p><u>Biggest 4-H Achievement:</u> Berklie earned the Small Animal Round Robin Champion last year, making her third time competing in Round Robin very memorable.</p> <p><u>Favorite Ice Cream:</u> Jamoca almond fudge</p> <p><u>Wish I could Go:</u> New Zealand, Italy, Hawaii—basically the whole world.</p>
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If you have any questions about the State Ambassadors, or are interested in joining, please email wa4hsa@gmail.com. We hope to hear from you!

Spokane County Extension Hosts Spring Three-Day 4-H Horse Clinic May 12 – 14

Spokane County Extension invites you to a 4-H Horse Clinic!

Saddle up and get ready for the show season with top notch clinicians. All 4-H youth welcomed. Our large and diverse clinic plans to cover a variety of disciplines: performance, western games, jumping, dressage, and greenhorse.

Our clinic is ideal for both advanced and beginner riders, small size class and affordable rates. We hope to see you in May.

3-day: 4-H Horse Clinic

May 12-14th

Spokane County Fair Grounds

Flyer: <https://s3.wp.wsu.edu/.../03/Spring-clinic-flyer-2023.pdf>

Sign up here: <https://forms.office.com/Pages/ResponsePage.aspx...>



4-H Horse Spring Clinic

May 12-14th 2023

Spokane County Fair Grounds



The 4-H Spring Clinic is a perfect opportunity to learn, gain new skills and get ready for the show season with top notch clinicians. For an affordable price. Neighboring 4-H counties welcome. <https://extension.wsu.edu/spokane/4h/>

• Western Games • Performance • Jumping • Dressage • Green Horse •

Kelsey Masterson



Bucky Robinson



Becky Parrish



Sharon Fouts



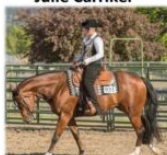
Aubrey Roth



Brianna Randall



Julie Carriker



Bailey Baurer



Ellen Hoyer



Registration is Open for the Annual Wahkiakum 4-H Great White Tail Run!

The 39th Annual Wahkiakum 4-H Great White Tail Run is on Saturday, May 20, 2023. Registration begins at 8:30 am at the Skamokawa Vista Park Office, Run starts at 10:00 am. We have several walk/runs available: 10K, 5K, 2 mile through Julia Butler Hansen National Refuge in Skamokawa, Washington. Participants can register online or via mail with the brochure and t-shirts are available for purchase too!

In order to guarantee a t-shirt purchase, you must register by May 5th.

Please contact our run coordinator Carol Ervest with questions, 360-465-2275 or email Lisa Frink, Wahkiakum 4-H Program Coordinator, lfrink@wsu.edu

We look forward to seeing you soon! #gwtr2023



DATE: Saturday, May 20th, 2023

TIME: Registration begins at 8:30 am; Run at 10 am

COURSE: 10K, 5K, 2-mile run/walk through Julia Butler Hansen National Refuge in Skamokawa, Washington

AWARDS: Recognition given for overall male and female winners in each event, ribbons for top three finishers in each age division.

OFFICIAL DOG RULES: Socialized dogs only. Dogs should be at least 6 months old with current vaccinations. Dogs must be on leash at all times and stay on designated course. Female dogs in season are not permitted.

REGISTRATION INFORMATION AND LINKS:

Mail in Registration: [2023 4-H GWTR Brochure](#)

Online: <https://runsignup.com/Race/WA/Skamokawa/GreatWhiteTailRun>

Must register by 5/5/23 to guarantee a shirt.

For further information, call:

360-465-2275 or 360-795-3278

The Julia Butler Hansen National Wildlife Refuge, in addition to protecting endangered deer, is also a wintering area for waterfowl on the Pacific flyway. Skamokawa Vista Park has showers, playgrounds, yurts, overnight campsites & RV accommodations. For reservations at this park, call 360-795-8605.

Dressage Clinic Coming to Franklin County in June!



Please mark your calendars for a dressage clinic with Abby Welch on June 18th in Franklin County.

The clinic is open to 4-H horse members and is great way to receive practice and guidance in preparation for the Washington State Junior Horse show.

For more information, contact Sue Duffy, 4-H Horse Superintendent for Benton/Franklin County. Sue's email address is smarieduffy@gmail.com.

Read Abby Welch's Bio [HERE](#)

2023 Dressage Show Entry Form is [HERE](#)

Entry Form for Dressage Clinic with Abby is [HERE](#)

Submitted by Jennifer Leach, State 4-H horse contact.

Introducing: Find What Moves You!

Find What Moves You (FWMY) was developed by researchers at Washington State University to support mental, physical and social well-being in middle school

girls. *FWMY* is a movement-based activity program for youth **11-14-years old** who identify with a girls community intended to help them appreciate, explore, and embody their truest selves. We welcome cisgender, transgender, and non-binary youth of all races, ethnicities, abilities, and body sizes. In *FWMY*, participants will move (e.g., dance, yoga, kickboxing and more!), connect with peers and mentors, and reflect on their own unique experiences. They will learn skills like **mindfulness, self-compassion, and body appreciation** that help them navigate the challenges in their lives and feel good being themselves.

The program is **FREE** and meets twice a week for 4 weeks online through Zoom on Tuesday and Thursdays from 4:15-5:00pm starting April 11th. Learn more and register at our [website](https://findwhatmovesyou.org) (findwhatmovesyou.org).

FIND WHAT MOVES YOU

Appreciate, explore, and embody your authentic self!

Activities

- Movement: **Yoga, dance, kick-boxing, and more!**
- Social connection
- Self-reflection

Details

- For girls 11-14 years
- **Free** 4-week program
- April 11th- May 4th
- T/TH 4:15-5:00pm (PDT) on **Zoom**
- Inclusive of cisgender, transgender, and nonbinary youth.



Registration

Register on our website or scan below!
[Findwhatmovesyou.org](https://findwhatmovesyou.org)



Registration - English



Registration - Spanish

Email: fwmv.program@wsu.edu
Website: [Findwhatmovesyou.org](https://findwhatmovesyou.org) 
Washington State University: Psychology of Physical Activity Lab

Upcoming 4-H Horse Events to be Hosted By Yakima County Extension 4-H

Hay!!! Do you love horses? Upcoming Yakima County horse events at <https://extension.wsu.edu/.../4-h-events/4-h-horse-events/>



**INFORMATION
HERE**

<https://extension.wsu.edu/yakima/4-h/4-h-events/4-h-horse-events/>

Upcoming 4-H Horse Events

- April 8, Trail Clinic with Heidi Masengale
- April 22, Equi-Fair Schooling Show
- June 3, Sagebrush Riders Annual 4-H Horse Show
- June 23-25, WSJHS 4-H Horse Show
- June 24-25, WSJHS State Classic Open Horse Show

Announcement of Dressage Tests for the 2023 4-H State Fair

The dressage tests for English dressage at the 2023 4-H State Fair will be Test 3 for both Training Level 1 and First Level.

Western Dressage has come back for the 2023 4-H State Fair and Test 3 for both Basic Level and Level 1.

4-H horse members will only be able to ride either English Dressage or Western Dressage, but not both, due to time constraints related to arena time.

These tests are available on the respective governing organizations—United States Dressage Federation (USDF) for English (<https://www.usdf.org/>) and the Western Dressage Association of America for Western dressage (<https://www.westerndressageassociation.org>)

The Western Dressage Association of America is the governing body for the Washington State 4-H Horse program. The information in the 2015 PNW 4-H

Horse Contest guide on page 20 is outdated. In Washington, we do not use the North American Western (NAW) dressage tests.

Submitted by Jennifer Leach, WSU Extension 4-H State Fair Board Staff Liaison. E-mail Jennifer at LeachJ@co.cowlitz.wa.us.

Reining Pattern for 2023 4-H State Fair Now Available

The 4-H State Fair reining pattern is now posted on the horse page on the WSU 4-H webpage located at <https://extension.wsu.edu/4h/projects/animal-science/companion-performance/horse/>

Reining will once again be offered at State Fair for Seniors only. The reining pattern is the same as last year to encourage participation since this is only the second year of 4-H reining. And also includes the scoresheet as an educational and judging tool.

There will be additional reining patterns for county level use that are reflective of basic reining and/or introductory reining. More to come next week.

For those who do reining—it is a series of circles, stop, back, figure 8, flying changes, roll backs, and/or spins. And based on skill level and/or complexity of the series of movements.

Submitted by Jennifer Leach, Chair of the “Ad Hoc Reining Committee” and 4-H State Fair board 4-H Staff Liaison. E-mail Jennifer at LeachJ@co.cowlitz.wa.us.

Food Preservation Requirement Completion – Guidelines for 4-H Food Preservation Leadership

Jana Ferris

After further review, the following will be accepted as meeting the requirement of having completed food preservation training to leader 4-H Food Preservation Projects:

4-H Food Preservation, <https://extension.wsu.edu/4h/for-volunteers/volunteer-training/>

Master Food Preserver (MFP) – active participation in the program
Consumer Food Safety (CFS) – currently serving as a CFS advisor for WSU

To demonstrate serving as an active MFP or CFS, the supervising faculty, staff, or county director sends an email affirming your participation to the Extension Volunteer Development Specialist (ferrisj@wsu.edu).

Also, we will be reviewing the requirement in the next few months and determine what, if any, future training might be required. Stay tuned for further information.



Graphic – WSU Kitsap County Extension 4-H

Ask Dr. Universe: What Happens If You Get Sucked Up By a Black Hole? – Amari, 10, North Carolina



What was Earth like four and a half billion years ago? Was there life? Listen to the most recent [Ask Dr. Universe podcast episode](#) about our amazing planet, featuring NASA scientist Sanjoy Som.

Dr. Universe: What happens if you get sucked up by a black hole?
Amari, 10, North Carolina

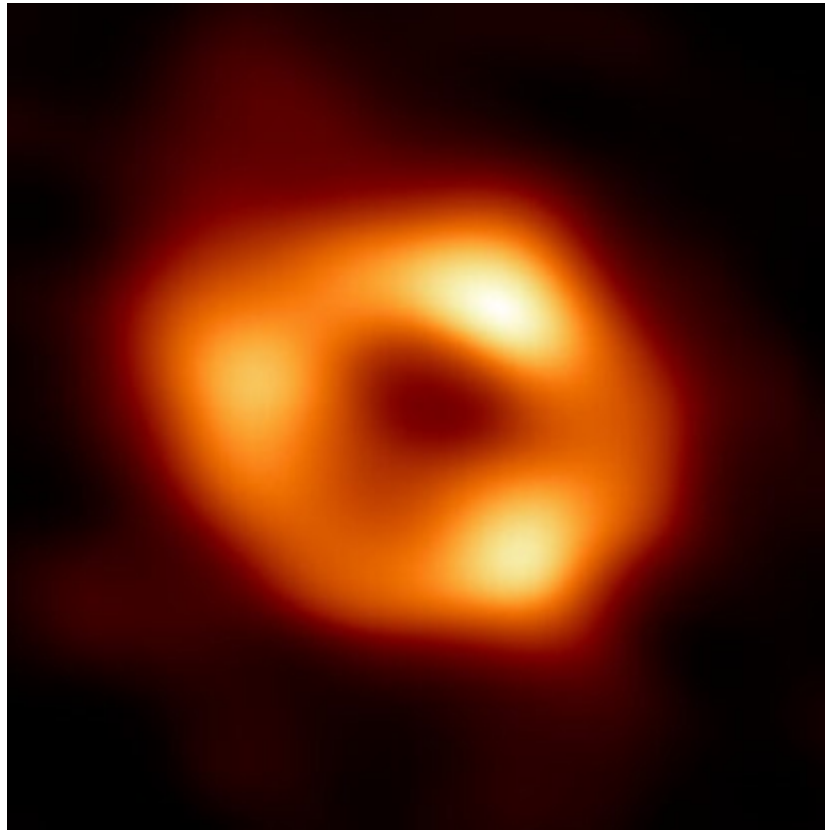
Dear Amari,

I was fascinated by black holes as a kitten. I liked them because they were scary. But they're also far away so I knew I was safe.

I talked about this with my friend [Vivienne Baldassare](#). She's an [astronomer](#) at Washington State University.

Baldassare told me a black hole is an area in space with lots of gravity. That's the same force that pulls your body toward the Earth.

"If we want to send a spacecraft somewhere else in the solar system, it has to travel fast enough to escape the gravity of Earth—so the rocket doesn't just fall back down to Earth," she said. "A black hole is a place where that escape speed is the speed of light. Nothing can move faster than the speed of light. So, nothing can escape from inside the black hole."



The first image of the black hole at the center of our galaxy, named Sgr A.
Credit: EHT Collaboration*

If you were sucked into a **black hole**, it wouldn't be pleasant. Let's say you fell in feet-first. The gravity of the black hole would pull much harder on your feet than your head. It would squeeze your sides together. You would be stretched into a long, thin noodle shape. Scientists call it spaghettification—like being turned into spaghetti. At some point, you would stretch so much that you were no longer one piece.

A small black hole is a few times heavier than the sun. If a small black hole sucked you in, you would become a noodle before you got to the point of no return—called the **event horizon**.

A big black hole is a million or billion times heavier than the sun. If you fall into one of those, you'd pass the event horizon before you started stretching. So, you'd probably be able to see what's inside the black hole before you became a noodle. Sadly, you couldn't tell anyone what you saw. That's because you can't

send information faster than the speed of light. Your radio signal would be trapped in the black hole with you.

So, what would you see inside that big black hole? Nobody knows! Black holes form when a massive star dies. There's a huge explosion called a **supernova**. The inside of the star collapses. Everything in the massive star squishes into a point so tiny you couldn't see it—called a **singularity**. That's a black hole.

That black hole sucks in the gas and dust around it. If it's close to a star, it will suck in star material. Everything a black hole ever sucked up is still inside it. We can only imagine what that looks like.

The good news is there's no way you'll ever get sucked into a black hole. You would have to get really close to one. The nearest black hole is about 1,500 light years away. So, you would have to travel at the **speed of light**—which we can't do—for 1,500 years to get there.

You will never be spaghettified. It's im-**pasta**-ble!

Sincerely,
Dr. Universe

Dr. Universe: Are unicorns real? Emma, 8, Minnesota

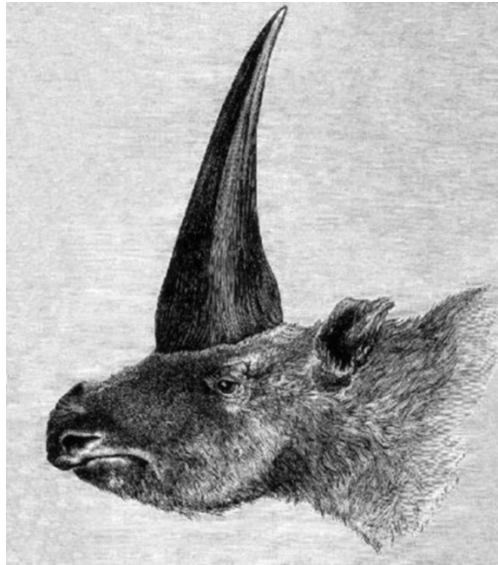
Dear Emma,

My favorite animated GIFs are the ones with **cats riding unicorns**. I'm delighted to tell you about a real unicorn that lived a long time ago: the **Siberian unicorn**.

The Siberian unicorn was bulky and furry. It had a big hump on its back. Its horn was three feet long. That's as big as a human preschooler!

This real-life unicorn was a kind of rhino from **Eurasia**. But it was bigger than modern rhinos and probably galloped like a horse.

Scientists have known about Siberian unicorns since 1808. For a long time, they thought the unicorns went extinct 200,000 years ago. Recently, that changed. Now they think the unicorns went extinct closer to 39,000 years ago.



*An artist's idea of what the Siberian unicorn looks like, 1878,
Rashevsky, under supervision of A.F. Brant*

To understand how scientists worked that out, I talked with my friend **Kimberly Sheets**. She's an anthropology graduate student at Washington State University. She uses radioisotope dating in her research.

A radioactive isotope is an element with extra energy. That makes it unstable. Over time, it breaks down into something else.

Scientists analyzed the Siberian unicorn fossils with **carbon dating**. This uses a radioactive isotope of carbon called carbon-14.

"Over 5,730 years, carbon-14 decays into nitrogen-14," Sheets said. "By measuring how much carbon-14 is in a fossil, you can tell when it stopped absorbing carbon from the environment."

All living things are made of carbon. Plants pull carbon out of the air. Then they store it in their leaves, stems and roots. Animals get carbon by chowing down on those plants. While they're alive, plants and animals take in carbon all the time. When plants and animals die, they stop taking in carbon. Their bodies break down into the soil. Microbes help release carbon back into the air.

Rarely, some plants or animals turn into **fossils**. They're buried in the earth. Eventually their bodies absorb minerals from the earth. They turn to stone. Their carbon is trapped in the fossil.

Most carbon is carbon-12. It's stable. The amount of carbon-12 in a fossil will never change. It just sits there. But carbon-14 begins to break down as soon as the plant or animal dies. It breaks down at a regular rate.

That rate is called a half-life. The half-life of carbon-14 is 5,730 years. After that amount of time, half the carbon-14 will be gone.

Scientists measured the amount of carbon-12 and carbon-14 in the Siberian unicorn fossils. Then they compared those numbers to calculate the fossil's age. Carbon dating only works for fossils less than 60,000 years old. For older fossils, scientists measure other elements that break down more slowly.

If Siberian unicorns went extinct around 39,000 years ago, they lived at the same time and place as humans. I'm pleased to tell you that cats lived then, too.

I can't promise that those humans or cats rode Siberian unicorns. In fact, scientists think they were super-fast and rare, so it seems unlikely. But, based on math alone, unicorn-riding cats aren't impossible.

Sincerely,
Dr. Universe

[Get more questions and answers here!](#)



Know a kid with a science question?
Help them submit it for a chance to be featured in a future Q&A.

[Submit a question!](#)

SAVE THE DATE – 2023 4-H Dairy Judging Contest



The 4-H Dairy Judging Contest will be **July 18 at 11:00 am** at the Evergreen State Fairgrounds during the State Holstein Show.

Gary Fredricks

WSU Extension\Cowlitz County
304 Cowlitz Way
Kelso, WA 98626
360-577-3014 Ext. 3
garyf@wsu.edu

Skagit County Youth Wins Big at Goat 4-H

By **Marla Bronstein**, Skagit Talk



*Dylan loves the animals on his family farm, especially the goats.
Photo credit: Lesley Keefer at Focus Photography*

Dylan James Gillig – a current high school senior – and his younger siblings Jonah, Jonas, and Victoria currently live on a farm with their parents in Sedro-Woolley. The farm is large enough to manage crops, cows, goats, chickens, ducks and lambs. Farm life affords advantages, including the ability to easily do animal 4-H.



*Dylan performs his herdsman duties with his coach by his side at a fair.
Photo courtesy: Kristen Fairbank*

Dylan is a charter member of the Sties and Stalls 4-H Club, started in 2018 by his aunt, Heather Fairbank. Heather lives in Snohomish County, but comes up to Skagit for weekly meetings. There are about a dozen kids under the age of 18 in her group, including Dylan and his siblings. Dylan joined with his baby goat, Wiggles, first training the kid to walk on a lead.

“I like goats and cows,” says Dylan.

At the time, Dylan was an eighth grader, but not your average student. “When we started in 2018, the first goal was for Dylan to hang on to the leash,” says Heather. That’s because Dylan was born with ventricular septal defect, meaning part of his heart was not intact. This was only one of the many physical manifestations of his being born with Down syndrome. He is also legally blind, and while he can see with his glasses, printing has to be very large. He can’t see depth. When walking in new places or going up and down stairs, oftentimes he’s holding on to somebody’s arm. This can make walking an energetic goat kid difficult. But Dylan wasn’t about to give up.

By summer of 2022, Dylan was able to master a maneuver called stacking the feet, to properly present Wiggles to the judges while showing at the Evergreen State Fair. The result was a winning one. “He ended up with a fistful of ribbons at the Fair, including a rosette for the Champion Top Boy Pigmy Goat for Body Confirmation,” Heather shares.



He’s stellar showmanship and is enthusiastic to share his knowledge with anyone willing to listen. “When he’s at the fair and people come to look at the goats, he’ll walk them through the whole barn, and show them everything,” shares Kristy. “People enjoy it, and then thank him for his time. Sometimes I actually have to usher him away.

“People ask for him to show them around,” adds Heather.

Dylan loves being part of his 4-H club, attending every meeting and participating in the lessons and practices. At the end of each 4-H meeting, Dylan is responsible

for the group sendoff, with his parting message to each participant being “Good job, high five!”

High School and Beyond for Dylan Gillig

When Dylan was born, his mother Kristy was more concerned with him surviving, much less graduating from high school. His first open heart surgery was at 4 months of age. “They had to build his heart chambers,” shares Kristy. “The surgery took quite a bit of time and they weren’t able to fix another problem, a mitral valve defect. They were hoping he would outgrow it. He’ll eventually have to have a micro valve replacement.” For this, he has regular heart checks in Seattle.

With all of his challenges, Kristy is hopeful for Dylan’s future. She credits his possibilities and is grateful for both the educational and social experiences he has had since birth, both from his teachers and community service partners.



*Dylan and his younger brother Jonah collaborate at the Tech Barn at the Evergreen State Fair.
Photo courtesy: Kristen Fairbank*

After his 2023 high school graduation, Dylan will transition to the **ATTIC** program offered in Burlington. This three-year program focuses on independent living skills for the first two years, then it transitions to vocational training.

Once the ATTIC program is completed, Kristy doesn’t have anything pinned down for Dylan. She has not been able to find an adult-focused social or vocational program in Skagit County that fully supports families with impacted adult children, or to assist with respite care.

“It’s even more lacking in the eastern part of Skagit County,” says Kristy. “In Bellingham, there is more community involvement and more transitional support than there is currently Skagit County. I’d love to see that grow in Skagit County. I want to use the opportunity to advocate, for not just Dylan, but individuals like

Dylan, so that they have citizenship. I think that's the biggest part, being able to be a citizen in the community. To have a meaningful citizenship."

The family is preparing to make big decisions regarding how they can best support their whole family. "You know," Kristy says, "I'm being realistic that I don't think he's going to live independently. But some semi-independence would be great. For example, cooking is something that we continually work on. One of his recent goals is to work on visual recipes and follow the steps in the pictures. We've color coded his tablespoons and cups and then match it so that he can follow the recipe. But, operating a gas stove is probably not going to be in his repertoire. Fully independent living is probably not gonna happen. Some semi-independence is our hope for him. We're hoping that we can find some social outlet for him in Burlington and Skagit County. The social component is actually the most important part for us."

As for Dylan, he is looking forward to going on his choir trip to Disneyland, the senior field trip and his last **Skagit County Fair** has a 4-H member showing his goats. He would love to come visit in 2023

Submitted by Ashley Hernandez-Hall, WSU Snohomish County Extension 4-H

Q and A Sessions for the Washington 4-H Horse Program Continue

Have questions about the Washington 4-H horse program? We are planning to have a monthly Q and A for leaders, parents, members, and staff on the third Thursday of each month via Zoom from 6:30 to 7:30 pm. Zooms will start in February and run at least through June.

There will be no specific topics for this first zoom but will be around the theme/parameters of horses and youth development. It will be more than "what are the rules." However, there will be time set aside for input on future topics for the subsequent Zooms.

The Zoom meeting ID is 452-082-9765 with no passcode. You must have a zoom account to participate.

The meeting will be facilitated by Jennifer Leach, WSU Extension 4-H State Fair Board Staff Liaison. If you need further clarification of the meeting, feel free to contact Jennifer at jleach@wsu.edu



Pierce County Leaders Council Presents April Fun'Raiser



Get a jump on qualifying shows and county fairs! The Pierce County Leaders Council Fun'Raiser is an open show for cats, dogs, and horses happening on April 29, 2023 at Frontier Park in Graham, WA. Get extra experience in the ring or arena!

Fun'Raiser is open to all ages and is open to the general public. The Cat Show offers Fitting & Showmanship, Type and Agility. The Dog Show offers Showmanship, Obedience, Rally, and AKC-Canine Good Citizen Test and Novice Trick Test. The Horse Show offers Showmanship, Performance, Driving, In-hand, and Western Games.

Times and fees vary based on individual animal type. More information can be found at <https://extension.wsu.edu/pierce/4-h/current-member-leader-info/>.

For the Dog Fun'Raiser Flyer, [CLICK HERE](#)

For the Horse Fun'Raiser Flyer, [CLICK HERE](#)

March 26th 4-H Market Poultry Zoom Recording Now Available!



Recording- 4-H Market Poultry



**From March
26th, 2023**

**This presentation is for any
youth or volunteer who has
an interest in market poultry
and how to get started.**

Brought to you by the WSU Extension 4-H Youth
Development Small & Companion Animal Committee

If you are working on a Market Poultry Project and need to get some basics or more advanced info, check out our recording from March 26th, 2023. We covered fryers, turkeys, ducks, and geese, with the focus being on fryers and turkeys. This program is available to all, not just 4-H youth.

Find the link to the recording below.

<http://bit.ly/3ze4SbT> (WSU Zoom Recording)

Please take our post-workshop survey after viewing the recording at (WSU Qualtrics) this link is also in the recording. <http://bit.ly/3LRPppq>

Thanks for watching our workshop!

Pam Watson, M.Ed., pwatson@wsu.edu
WSU Lewis County Extension
4-H Youth Development Agent, WSU Faculty

Explore 4-H with WSU Extension Recording – Basic 4-H Cat Project



Recording-Basic 4-H Cat Project



**From March 5th,
2023**

**This presentation is for anyone who
has an interest in the 4-H Cat Project
and how to get ready for a show.**

Brought to you by the WSU Extension 4-H Youth
Development Small & Companion Animal Committee

Explore 4-H with WSU Extension – Recording -Basic 4-H Cat Project

This presentation is for anyone who has an interest in the 4-H Cat Project and how to get you and your cat ready for a 4-H Show. 4-H Volunteer Caroline Vadino presents with us on Explore 4-H with WSU Extension the “Basic 4-H Cat Project” from Sunday, March 5th, 2023. **You can find the recording for this presentation at <http://bit.ly/3Zlo3Wk>.**

There is a short survey at the end of the presentation with a link that will take you to a WSU Qualtrics page, please take a few minutes to complete the survey.

Thank you and enjoy the workshop,

Pam Watson, M.Ed.
WSU Lewis County Extension
4-H Youth Development Agent, WSU Faculty

RECORDING! Backyard Flock -Poultry Housing, Part 2, Chicks 8-28 Weeks



Backyard Flock Poultry Housing-Recording

Part 2, 8 Weeks- 28 Weeks



**This presentation is for anyone who
has an interest in poultry and how
to set up age-appropriate housing.**

Brought to you by the WSU Extension 4-H Youth
Development Small & Companion Animal Committee

Are you thinking about getting chicks? What sort of brooder should you have before you bring them home? Where will they live as they get older? Let's discuss some safe, inexpensive, and healthy designs for your poultry housing. This presentation is for 4-H members, volunteers, families, and anyone from the public who has an interest in small and backyard poultry and how to set up age-appropriate housing.

**You can find the second half of the recording "Chicks 8-28 Weeks"
at <http://bit.ly/3ELEidv>**

This recorded session of Explore 4-H with WSU Extension is brought to you by the WSU 4-H Small & Companion Animal Committee.

Thanks for watching,

Pam Watson, M.Ed., pwatson@wsu.edu
WSU Lewis County Extension
4-H Youth Development Agent, WSU Faculty

RECORDING! Backyard Flock-Poultry Housing, Part 1, Chicks 0-8 Weeks



Backyard Flock Poultry Housing-Recording

Part 1, Chicks 0-8 Weeks



This presentation is for anyone who has an interest in poultry and how to set up age-appropriate housing.

Brought to you by the WSU Extension 4-H Youth Development Small & Companion Animal Committee

Are you thinking about getting chicks? What sort of brooder should you have before you bring them home? Where will they live as they get older? Let's discuss some safe, inexpensive, and healthy designs for your poultry housing. This presentation is for 4-H members, volunteers, families, and anyone from the public who has an interest in poultry and how to set up age-appropriate housing.

You can find the first half of the recording "Chicks 0-8 Weeks" at <http://bit.ly/3Eat7uy> This recorded session of Explore 4-H with WSU Extension is brought to you by the WSU 4-H Small & Companion Animal Committee.

Thanks for watching,

Pam Watson, M.Ed., pwatson@wsu.edu
WSU Lewis County Extension
4-H Youth Development Agent, WSU Faculty

News for Washington State 4-H Equine

Save the Date! State Horse Bowl and State Hippology May 6-7, 2023

The 2023 WA State 4-H Horse Bowl Contest and WA State 4-H Hippology Contest will be held over the first weekend in May at the Grant County Fairgrounds in Moses Lake. Horse Bowl will be on Saturday, May 6 and Hippology will be on Sunday, May 7. All the details are in the registration packets, available below.

[2023 Horse Bowl Registration Packet](#)

[2023 Hippology Contest Registration Packet](#)

We hope 4-H members will try both!!

Lodging Information for teams needing overnight accommodations:

- Camping is available at the Grant County Fairground, including RV spaces. Those interested in this option may make arrangements directly with the fairgrounds here: <https://www.gcfairgrounds.com/p/fair/fair-camping>
- For hotel accommodations, we recommend national name hotels with rooms that open to hallways rather than the outdoors.

As with all State 4-H Equine Contests, each county may select their teams in any manner they choose (e.g. County Contests, Tests, Tryouts, Attendance) and those teams are approved by the County 4-H Educator. Other members are welcome to attend to observe the Contest but only designated County Teams may participate.



The list of sources that state contest questions and materials will be drawn from has been condensed to those that are free and/or easily accessible in hopes that addressing accessibility challenges will increase participation in state equine knowledge contests.

These sources are free downloads from our WA State 4-H website:

- The 4-H Horse Member Manual <https://pubs.extension.wsu.edu/the-4h-horse-project>
- The 4-H Horse Judging Manual <https://pubs.extension.wsu.edu/4h-horse-judging-manual>
- Beginning Horsemanship <https://pubs.extension.wsu.edu/beginning-horsemanship-mm>
- Contest Guide <https://s3.wp.wsu.edu/uploads/sites/2050/2022/06/PNW574-REV-2015.pdf>
- 4-H Driving Manual <https://pubs.extension.wsu.edu/4h-driving-manual>

- 4-H Dressage Manual <https://pubs.extension.wsu.edu/4h-dressage-manual>
- Hunt Seat & Jumper <https://pubs.extension.wsu.edu/hunt-seat-and-jumper-manual>
- Groom Squad <https://pubs.extension.wsu.edu/washington-state-4h-fair-groom-squad-contest>

And one additional source, available for purchase or digital rental: <https://www.ayhc.com/shop>

- Equine Science by Jean T. Griffiths
-

Remember to Sign Up for 4-H Equine Science and Horsemanship Series Thursdays!!

We are excited to launch the 2022-2023 WA State 4-H Equine Science and Horsemanship Series!! Hosted virtually on the 4th Thursday of the month, December 2022 – December 2023 (*5th Thursday in November 2023, due to Thanksgiving) from 6:30 – 7:30 pm.

All are invited to attend to learn more about horses! Sessions will incorporate hands-on opportunities and fun learning games! **Use this link to sign up and receive the zoom link:** <https://bit.ly/WA4-HEquineScience>

Registered participants will be emailed a suggested supply list prior to each session for the hands-on component.

NOTE: Instructors are needed for some of our upcoming sessions. If you have interest in teaching, please contact kim.baker@wsu.edu | 425-520-3908.

We are interested in hearing from staff, equine professionals, and alumni of the horse program that would like to share their area of expertise with an audience of youth.

Interested parties should be prepared to share an overview of their topic and how they envision incorporating a hands-on component in a virtual format. More details about the review process are available upon request.

Thank you!



WSU EXTENSION | WA STATE 4-H

EQUINE SCIENCE

& HORSEMANSHIP SERIES

FUN VIRTUAL
EQUINE LEARNING
FOR EVERYONE!

4th THURSDAYS*
DEC 2022 - DEC 2023
6:30-7:30 PM

*NOV 30, 2023 (5TH THURSDAY
DUE TO THANKSGIVING)

REGISTER HERE:
[HTTPS://BIT.LY/WA4-HEQUINESCIENCE](https://bit.ly/wa4-hequinescience)



4-H 

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