



4-H is the Youth Development program of University of Wisconsin-Madison Division of Extension.

The University of Wisconsin-Madison Division of Extension is an EEO/AA institution committed to diversity among its employees and in its programs.

Requests for reasonable accommodations for disabilities or limitations should be made prior to the date of the program or activity for which it is needed. Please do so as early as possible prior to the program or activity so that proper arrangements can be made. In certain situations, information related to requests may be shared with staff or units necessary to help coordinate an appropriate accommodation.



UW-Madison Division of Extension
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Walworth County 4-H Youth Development

4-H Science Labs



2023

Connecting Classrooms With the Clover



Dear Educator:

The Walworth County 4-H Youth Development program is pleased to offer fun, hands-on, science-based enrichment labs to complement your existing classroom activities.

- ◆ **Unless otherwise noted for the specific program, call 262-741-4959 or email deborah.harris@wisc.edu to schedule.**
- ◆ **Have two or three dates in mind.**
- ◆ **Please try to coordinate dates if multiple classrooms in your building are interested in the same program.**

Programs will be scheduled on a first call, first reserve basis through the end of the 2022-2023 school year. Note that lab availability is limited due to staff capacity.

Once dates are confirmed, complete the 2023 4-H Science Lab Registration Form and mail, email, or fax it in. **YOU WILL BE BILLED AS SOON AS YOUR REGISTRATION FORM IS TURNED IN. Please do not send money until you receive an invoice.**

Questions? Please ask!

Best,

Debbie Harris

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Eggsploring Incubation

Grades K-12

'23 Program Dates:

April 11- May 5 for chicks



April 11-May 12 for ducklings

Limit: 6 classrooms to hatch ducklings

Experience the miracle of life! During this 3-4 week hands-on program, you and your class will receive all of the supplies necessary to incubate, hatch, and care for baby birds. All you'll need to add is a little TLC and creativity. Sign up and you'll have access to fun lesson ideas, posters, and more. Automatic turners come with the incubators to make your job easier over the weekends. The Extension Office arranges homes for your babies, and help is always just a phone call away.

Cost per classroom is \$25 for chicks and \$35 for ducklings. Eggs will arrive April 11. Limit: one 4-H incubator per classroom. If you plan to use your own incubator, be prepared to tell how many eggs it holds when you call to sign up.

*Registration deadline is March 21 at 9 a.m. or when equipment is all spoken for—whichever comes first. Be aware that equipment is limited and registrations will be accepted on a first call, first reserve basis. Call 262-741-4959 or email deborah.harris@wisc.edu to check equipment availability and sign-up **BEFORE** mailing in the registration form. Additionally, please realize that hatches are NOT guaranteed, and refunds won't be made for eggs that don't hatch.*

Ready, Set, Dough

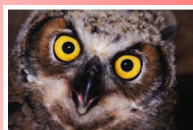
Grades 2-5



Students will mix and knead from the perspective of scientists as they learn how ingredients are combined in the kitchen “laboratory” to create loaves of bread to share with their families! The role of each ingredient is discussed, and teamwork is emphasized. Students’ loaves are returned to your classroom the day after your program, baked and packaged for travel. Time required is 90-minutes, not including student handwashing time before and after. Cost is \$2 per student. Up to two classrooms can be accommodated per day — one before lunch and one right after. No Fridays, please, unless your classroom can bake its own bread at the school. Two or three long rectangular tables placed end to end serve best as a work space. Available year round.

Owl Encounter

Grades 2-6



Barn owls are very intriguing predators, and one of the few animals that can be studied with relevance almost everywhere in the world. This 60-minute program will provide your students with basic facts about barn owl life, their predatory adaptations, their eating habits, and the amazing things we can learn from the pellets they produce. Following the fast-paced lesson, students will work individually to dissect owl pellets and identify the discoveries within. Cost is \$2.00 per student. Live owls are NOT a part of this presentation. Available year round.

Reduced to a Pulp

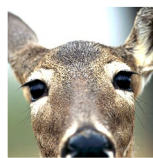
Grades 3-6



Trees are an important part of human life—making products and services possible that most of us take for granted. The average American consumes the equivalent of seven trees in paper, wood, and other products each year, amounting to 2 billion trees per year nationally. This 60-minute lab, led by Extension educators, will consider the goods and services made possible by trees, the process by which trees are converted into paper, and the ease and benefits of paper recycling. Then, students will work in pairs to construct their own recycling mills and recycle paper right in their classrooms. Each student will end up with their own piece of recycled paper to take home. Cost is \$20 per classroom. Students will work in partners and require a flat work space. Available year round.

Wonders of Wildlife

Grades K-8



**For this program contact
4-H Natural Science Key Leader,
Kathy Tober, to schedule: 262-642-5857.**

This 50-60 minute presentation will have students sitting on the edge of their seats as they learn fascinating facts about Wisconsin wildlife and discover unexpected historical connections between wildlife and agriculture. Presentations are tailored to audience age. Typical presentations include student interactions with a variety of artifacts including furs, skulls, and antlers. Cost is \$15 per classroom. Available year round.

From Dirty Water To Drinking Water

Grades 3-5



Water is one of our planet's most precious limited resources. As such, Mother Nature has concocted a way to clean up the water we dirty, so we can use it over and over. Her strategy is so solid, we mimic it at water treatment facilities. During this 50-minute lesson, students will consider where drinking water comes from and how the water we send down the drain gets cleaned up. In the process, they'll create simple filtration systems and clean dirty water. Cost is \$20 per classroom. Students will work in pairs and require a flat work space. Available year round.

On the Technology Trail

Grades 4-8



Using basic GPS skills, students will track down clues at numerous way points to solve a puzzle during a geocaching challenge course. This program is taught by Extension educators and can be taught as two-45 minute sessions or one 90-minute session. Part 1 of this lesson introduces students to GPS, its real world applications, and provides instruction for using simple handheld navigational receivers. Part 2 includes a quick review and the challenge course. All materials, including prizes, are provided. Cost is \$30 total per classroom. Available mid-April through mid-November.

Scientists Live

Grades 8-13



This informal virtual careers series was created to help teens learn about science-related career options quickly and easily. Each of the 37 recorded episodes is 30 minutes long and consists of a short presentation given by a featured “scientist,” followed by a Q & A session during which live participants asked questions. Sessions were recorded live during 2020-2022. Use the link below to access recordings and a “reflection guide” handout. Access is FREE.

Some of the careers included are: Aerospace Engineer ▪ Architect ▪ Artist ▪ Astronomer ▪ Biologist/Epidemiologist ▪ Biotechnology Specialist ▪ Cabinetmaker ▪ Chemical Biologist ▪ Dairy Animal Scientist ▪ Ecologist/Microbiologist ▪ Electrical Engineer/Electric Motor Researcher ▪ Electrician ▪ Extension Livestock Specialist ▪ Extension Poultry Specialist ▪ Forensic Anthropologist ▪ Geneticist/Astrobiologist ▪ Greenhouse Manager ▪ Marine Biologist ▪ Materials Scientist ▪ Mechanical Engineer ▪ Medical Researcher ▪ Neurological Clinical Specialist ▪ Product Development Technologist ▪ Science Outreach Coordinator ▪ Science Outreach Specialist ▪ Shoreland & Land Use Specialist ▪ Veterinarian.

Access recordings at:
<https://go.wisc.edu/y18738>

4-H Science Explorers

Exploring science career paths with YOUth.

A Crawford, Lafayette, & Walworth County Partnership



UW-MADISON EXTENSION

