

Headwaters Science Center
413 Beltrami Avenue NW
Bemidji, MN 56601
(218) 444-4472



Stop by HSC and meet our Northern blue-tongued skink, **Hypatia**. A native of Australia, blue-tongued skinks are a very interesting and fun species. They can grow up to 16 inches long and feature a stout body and short legs. They are active during the day (which makes it fun to stop by HSC).

Our skink is named after Hypatia, the first recorded female mathematician who lived in Alexandria, Egypt and taught philosophy and astronomy.

Headwaters Science Center provides fun learning through Summer Camps

Five days with five focus areas:

- Science Activities
- Technology
- Engineering
- Art
- Math

S.T.E.A.M. CAMPS

9:30 - 4:00 Monday - Friday
2nd, 3rd & 4th graders

GIRLS ONLY July 15 - 19
BOYS & GIRLS August 5 - 9

Looking ahead to the warmth of summer, we think about opportunities for students to spend time at Headwaters Science Center! Summer is a critical time to keep kids thinking and learning! HSC offers great summer camps! S.T.E.A.M. (Science, Technology, Engineering, Art, and Math) Camp has a different focus each day of the week. Medieval Camp, focuses on inventions and ideas from the past (catapults, beekeeping, pollination, astronomy, and more) that have fueled the technology and thoughts of today!

You don't have to be a member to attend summer camps. However, having a membership is a great way to commit quality time for your child to explore and learn throughout the year. Memberships range between \$40 - \$60 for an individual and \$65 - \$85 for a family.

Promote your child's interest in science, consider a membership, and come to summer camp! Each camp is \$165/members and \$185/non-members, with camp sizes of 10 minimum and 20 maximum participants. To register online, visit HSCBemidji.org/special.html, call 444-4472, or stop by HSC.

MEDIEVAL CAMP

TECHNOLOGY THROUGH TIME

JUNE 10 - 14, 2019
9:30 AM - 4:00 PM
HEADWATERS SCIENCE CENTER
...for students entering 2nd, 3rd, and 4th grade...

Some inventions from the past may seem wacky today, however, if you join us for this summer camp, you will learn how technology has evolved, giving us some very awesome inventions!

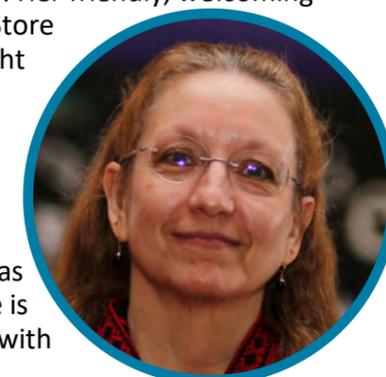
Learn about a spectrum of scientific discoveries—beekeeping and pollination, making paper and pens, catapults, and plants, plagues and astrology.

STAFF SPOTLIGHT

Meet Headwater Science Center's Peggy Nygaard! Her friendly, welcoming smile will greet you as you enter HSC. She is our Store Manager and is ready to help you find just the right something before you end your visit to HSC.

She is also very helpful when it comes to finding presents for hard-to-shop for kids – so keep that in mind for birthday and holiday shopping!

We are thankful for Peggy and the 24 years she has worked at Headwaters Science Center! When she is not at HSC, she enjoys baking and spending time with her family and friends.



The Headwaters Science Center's mission is to provide intellectual stimulation and enjoyment for children, adults, and educational organizations in Northern Minnesota using hands-on science and technology exhibits and programs.

We only turn 25 once — let's celebrate!

We have big plans for the future and need your support! Our short-term and long-term goals will provide new exhibits and increased programming, capital improvements, and more!

Our goal is to raise \$25,000 in honor of 25 years!

All gifts are needed and welcome.
Simply fill out this form and return it with your tax-deductible contribution.
Checks payable to HSC or Headwaters Science Center.
Online gifts welcome at HSCBemidji.org

Happy 25th Birthday, Headwaters Science Center!

In honor, I would like to donate:

\$25 \$50 \$100 \$250 Other: \$ _____

Name: _____

Address/City/ZIP: _____

Phone/Email: _____



DIRECTOR'S UPDATE

By Annie Butler Ricks, executive director

"Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less."
- Marie Curie

I recently visited one of our weekly off-site Science Clubs at Central Elementary, where the kids have been learning about engineering. This week's activity was to work in groups to design and build a bridge, using masking tape and four sheets of paper, that could span a distance of 8.5 inches. The kids tested their bridges by seeing how much weight the bridges could withstand before they collapsed. It was SO much fun being with the kids as they made their bridges!

Every single group started by using a flat piece of paper as their bridge and they quickly learned that a single, flat piece of paper isn't very strong! Further into the afternoon the groups had gone through many iterations of their bridges and were learning that if the paper was folded or rolled that it gained strength. Pretty quickly we had to teach the kids that engineers don't compete with each other to build the best bridge, but rather they only compete with themselves. By the end of the afternoon all of the groups built very unique bridges that withstood about the same weight.

In the beginning, a few of the students were scared and didn't want to be engineers. As they worked together in groups and tried (and failed) and tried again, they started to have fun with the activity and learned about the strength of paper. Some students focused on the artistic side, while others leaned towards making the bridges as strong as they could. In the end, all of the students worked together to accomplish the goal of making the best bridge they could.

By the end of the activity they were so proud of their bridges that they asked to take them home. These kids were brave and conquered their fears and gained understanding. Whether they realized how brave they were or not, we see this happen within the kids that participate in programming at HSC. They overcome fears by gaining understanding.

Is there anything that we, as adults, can do to overcome fear and gain understanding when it comes to science? Are there scientific topics that scare us, but that if we spent some time learning about, might not scare us as much? I encourage us all to spend a little bit of time this cold spring learning something new. Headwaters Science Center is a great place for both children and adults to learn and we encourage you to stop in and spend some time with us!



GET INVOLVED

Be brave - put yourself out there - and get involved!

Headwaters Science Center is looking for individuals to serve on committees and the governing board.

There are three committees to consider being involved with: (1) Events, (2) Education, (3) Marketing & Fundraising. You don't have to be a subject expert - be interested and willing to research and help out.

Individuals interested in serving on the board do not need to have previous experience. HSC would like to identify board members with backgrounds in Human Resources, Information Technology, and K-12 Education (including charter schools). The Board meets the second Wednesday of each month from 5:00—6:00 pm.

Learn more about these opportunities to get involved, by contacting Annie at director@HSCBemidji.org or call (218) 444-4472.



What does the Environmental Science Club get to do?

Over the past year and a half, HSC has offered a club for middle school students that fosters awareness and stewardship of our waters and their adjacent ecosystems through active participation and authentic outdoor learning experiences.

We've partnered with Boys and Girls Club of Bemidji to increase community access to this program for a wider variety of students. Our club is focused on water quality, watershed evaluation, invasive species, and focused action supported by citizen science findings.

When weather permits, we spend time in the field collecting and analyzing samples with data utilizing Minnesota Pollution Control Agency's collecting protocols for lakes, rivers and other water resources. We engage in citizen science as we gather actual data in real time from area bodies of water that we can track, monitor and compare throughout the years; by sampling and studying local chemistry, flora and fauna. Throughout our sessions, club members have created and maintained a number of aquaria, including a 160 gallon natural species tank in the main entry of HSC (check it out the next time you visit us).

The Bemidji State University Aquatic Biology Department has generously provided us access and use of their new Hardwater Lab, where students can comfortably gather winter samples in even the harshest of weather. Toasty warm inside these self-sufficient shells, we use professional equipment, cameras and big screens to observe organisms in their natural habitat, and experience their secretive life under the ice. We are so grateful for the partnerships and support that allow us to continually create, improve, and expand hands-on learning opportunities for area youth! Call or stop by to learn more about the Environmental Science Club - there is room for more!



10th Annual Fundraiser, e³ (e-cubed) to be held Saturday, April 6, 2019

Join us for the 10th Annual e³ fundraiser on Saturday, April 6, 2019 from 5:00—8:30 pm at Headwaters Science Center. The exhibit floor will transform to host an elegant night out, filled with gourmet food presentations, a signature cocktail, live music, silent auction, and best of all—the fiery event that started it all—the evening's dessert, Banana Foster!

Gourmet entrees will be created by chefs from area restaurants, as you travel around the science center to take in this elevated epicurean experience (hence the name, e³ (pronounced e-cubed). Enjoy a variety of music genres.

Tickets are \$50 per person and available at Lueken's North or South, and at the Headwaters Science Center. Only 100 tickets are available and this event will sell out, so, get your tickets today!

Special thank you to our sponsors listed below:

