ASD-N

http://stemnorth.nbed.nb.ca/

# Science

## 2022-2023 Highlights

## MSA FISH FRIENDS AT GG

Mr. Glazier's class at Gretna Green took part in Miramichi Salmon Association's Fish Friends program. Students learned about the salmon life cycle, habitats, measuring water temperatures, and more. The highlight this year was a helicopter visit from Saint John!

## GARBAGE TO GOLD AT MAA

A Max Aitken student participated in the ASD-N 'Garbage to Gold' Glowforge Challenge by collecting sea glass and engraving it, Miramichi style. She plans to sell her treasures at the MAA PYE market in June!

## ENGINEERING CHALLENGES AT NRS

Ms. Hall's class at Nelson Rural School participated in the Marshmallow Tower Challenge!

## POWERFUL PLAY AT TFES

Grade 3-5 students in Ms. Keith's Powerful Play block, experimented with fun science and photography!

## SEEING SCIENCE AT MAA

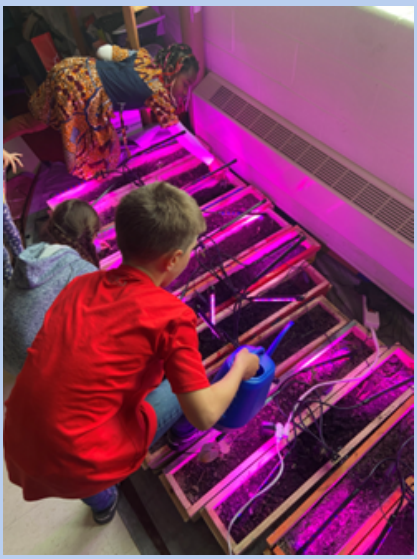
Students in Mme. Kingston's Science classes (7/8E & 8E) conducted scientific investigations and recorded their observations through photography and videography using iPads and personal devices.

At the end of the project, students showcased their beautiful work at their gallery exhibit. They chose one main piece to show and were able to share its artistic and scientific significance.

Learn more on
STEM North | Seeing Science

## BHS STUDENTS REDUCE PLASTIC WASTE

The BHS environmental club encouraged the cafeteria to change their packaging from single-use plastic wrap to paper bags to reduce our plastic waste.



## TFES STUDENTS LEARN ALL ABOUT PLANTS

Mrs. Meaghan's Grade 3 food project has taken many forms this school year. One of their favourite projects was when the students built their own garden boxes. They planted their choice of seeds in the boxes and started to grow food indoors. They learned about plant parts, made predictions, took measurements, and gained a deep understanding of what plants need to thrive.

## PARKWOOD HEIGHTS BUILD A HABITAT

Ms. Wood's Kindergarten class learned about seeds and plant growth by growing grass seeds in their tuff tray table. Recently, a student brought in a ladybug which led to enthusiastic learning extensions, including researching and building a habitat, using scientific tools and recording observations.

## FROM EGGS TO DUCKLINGS AT KSE

Mme. Richardson's class were given some fertilized duck eggs. They were able to watch the 28 day process, up to hatching and then the first couple weeks of the ducks' lives. Some of the eggs hatched, some didn't. Some started to hatch, but then some of those ducks didn't survive. The students were able to witness the whole process from egg to duck. They now have some pheasant eggs in the incubator and are hoping for some pheasants in the next few weeks.

## ON THE AIR WITH TFES

Students in M. Austin's 5FI class learned about radio stations and built their own radio show with the help of Michel Jacob. They also learned about podcasting.

## SMS SEA MONKEYS TEAM EXPLORES OOBLECK

**The 7 & 8 Sea Monkeys Team at Superior Middle School dove into a Scientific Inquiry of a mysterious substance. They investigated the properties of matter to identify and experiment with 'Oobleck'!**

## UPCYCLED FASHION AT JANEVILLE ELEMENTARY

Students in Ms. Ellis's 4/5 class learned about reducing their carbon footprint by upcycling old clothing into new items they can wear. Students also used other technologies to enhance their clothing.

Learn more!

Students chose this after school club to build their skills in anticipation of our spring PYE market and other Collab Project Expos at MAA.

## AFTER SCHOOL MAKER CLUB AT MAA

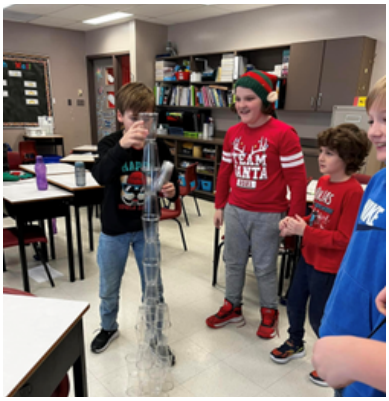
## MAA STUDENTS HELP OTHERS WITH THEIR MAKER SKILLS

In the second of a four-part collaboration project series, middle school students at Max Aitken Academy worked with the NB Centres of Excellence for Health. Students were challenged to engage their maker skills, and create something “to help or comfort” someone (a professional or patient) within the specific health career they were studying. Many chose to design their product using the Glowforge or vinyl cutter. Most products will be given to working professionals who have participated in interviews with students, as part of their research for this project.

## TFES STUDENTS EXPLORE

Students in Ms. Haley's classes explored with 'Instant Snow', 'Array of Light' and 'Rocks and Soils'.

## NELSON RURAL CHALLENGES




Ms. Donovan's 4/5 class participated in many STEAM challenges throughout the year, including the cup stacking challenge and the jellybean tower challenge!

## NRS MAKES SOME NOISE

Ms. Hall's students were challenged to make their own noise makers. They had to be able to make a loud sound, a quiet sound and two different pitches.

## CMS CLASS GROWS LETTUCE HYDROPONICALLY

Mme. LeClair's 5FI class at Campbellton Middle School grew lettuce in their hydroponic garden. Students worked together to take care of the garden and harvest the lettuce. The class invited parents and family members to come help prepare a feast of tacos to sample the delicious lettuce!

## HACK-O-WEEN @ MAA

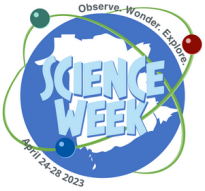

Classes 6E and 6/7E at MAA explored circular making, coding and the design process during their STEM block in middle school. Students reused materials destined for the landfill to create spooky (or silly) Halloween decorations. They also created unique codes to enact lights, sound and movement onto their prototypes, using microbits, b.boards and sensors provided by Brilliant Labs.

Thanks to everyone who helped collect secondhand materials for this project! And special thanks to Brilliant Labs / Labos créatifs for the equipment!

## CMS DISSECTS 'FROGS'

6E got to learn about frog anatomy by dissecting their very own plastic frogs. Fun learning activity for everyone!

# ASD-N SCIENCE EVENTS




## NB SCIENCE WEEK 2023

Hosted by the four Anglophone School Districts, NB Science Week 2023 held over 70 virtual sessions, multiple in-person sessions and had over 3656 class registrations with over 680 coming from ASD-N. The goal of NB Science Week is to raise awareness for the importance of Science in our lives and to inspire a love and curiosity of the wonders of the world around us.

STEM fest 2023

## STEM FEST 2023

ASD-N STEM Fest 2023 hosted a total of 83 ASD-N students who had the opportunity to showcase their learning in Science this year. They were also exposed to hands-on, experiential learning opportunities from partners: The Gaia Project, Brilliant Labs, Science East, ASD-N ICE Centre Aviation and FYidoctors. New this year, we also had a showcase section for students, groups, and classes to highlight projects they received grant funding for. 18 projects advanced to Regionals in Fredericton and two projects advanced to Nationals in Edmonton, AB. Three projects were invited to showcase at the Brilliant Labs Atlantic Innovation Fair in Moncton, NB.

*Thank you to all teachers, students, administrators, school support staff, parents, partners and district office staff who supported Science education in ASD-N this year!*