

CENTRES OF EXCELLENCE

Newsletter

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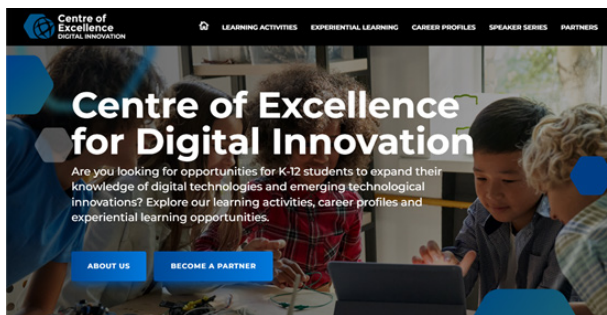
[Contact the Centres of Excellence](#)



Centres of Excellence
PARTNERS IN EDUCATION

NEW CENTRE OF EXCELLENCE LAUNCH

The Centre of Excellence for Digital Innovation (COEDI) will officially be launching on December 2nd and is accessible at <https://centresofexcellencenb.ca/digitalinnovation/>.



December 2, 2022

The site includes cross-curricular learning activities for classrooms, experiential learning opportunities for students and teachers, and speaker series videos that focus on career and post-secondary educational pathways. COEDI provides access to industry professionals in the form of guest speakers, site visits, and mentorship for entire classes or individual students as they work on projects. Teachers are invited to contact COEDI lead, Adam Binet (adam.binet@gnb.ca) if you have innovative projects you may want some help with, if you are interested in professional learning, or if you would like to arrange experiential learning opportunities for your students.

TOWNSVIEW SCHOOL DESIGNS TINY HOMES

Mrs. Taylor, Mrs. Furlan, and Mr. Reardon's classes at Townsview School in Woodstock tried the Tiny Homes lesson this month! Designed by Amy Tompkins, this hand-on activity allows students to design and build models of energy efficient homes while learning about careers in NB.

Find the instructions here - [Tiny Homes | Centre of Excellence for Energy](#) (centresofexcellencenb.ca) and reach out to amy.tompkins@gnb.ca for a kit.



FUTURE NB 

FUTURE WABANAKI 

CENTRES OF EXCELLENCE HOLIDAY CHALLENGES

K-5 ENERGY-EFFICIENT GINGERBREAD HOUSE

VIRTUAL EVENT

Wednesday, December 21st

9:00-10:30am

Students will build houses made to endure the New Brunswick winter for a furry, forest friend. All materials will be provided.

A LIVE reading of
Gingerbread Mouse
from a special North
Pole Guest!



Imagine a tree falling on your house - just before the Holidays! Join the Centre of Excellence for Energy for a 1.5 hour interactive and cross-curricular holiday learning session. Your students will have the opportunity to plan and build energy-efficient gingerbread houses to solve a housing problem for a small, forest friend. There will also be a "special" North Pole guest reader sharing the book, "Gingerbread Mouse" and a special class treat. You don't want to miss it!

The first 10 classes to sign-up BEFORE December 11th will be given all materials needed! Please contact Adam Trider: adam.trider@gnb.ca or Amy Tompkins: amy.tompkins@gnb.ca to sign up your class for this holiday learning experience.



Get into the festive mood while learning about [health and social care career pathways](#) with the Centre of Excellence for Health!

The activities are **suitable for all grade levels** and allow students to explore the health and social career opportunities within the province from different lenses. Check out the [COE Health website](#) for a [mini activity guide](#).

Please reach out to the COE Health Intern, Vy Cung (vy.cung@gnb.ca) if your class completes all 12 activities! Or upload a picture of your class doing any activities from the COE Health "12 days of Health Holidays" activity on Twitter and tag @NBCOE. Your class will be entered into a draw and could win a healthy lunch or breakfast!

A festive poster for the "12 Days of Health Holiday" activity. It features a green background with pine branches, red berries, and gold and silver Christmas ornaments. A central gold banner contains the title "12 DAYS OF HEALTH HOLIDAY" in a cursive font. Below the banner, text describes the activity and provides contact information. A red heart logo for the Centre of Excellence Health is in the bottom right corner.

12 DAYS OF HEALTH HOLIDAY

Get into the festive mood while learning about health and social care career pathways with the Centre of Excellence for Health's "12 days of Health Holiday" activity. These activities are suitable for all grade levels.

Please send the pictures to the COE Health Intern (Vy.Cung@gnb.ca) or upload a picture of your class doing any activities from the COE Health '12 days of Health Holiday' activity on Twitter tagging @NBCOE. Your class will be entered into a draw to win a "Healthy Lunch or Breakfast".

Deadline for Submission
December 23rd, 2022

Learning activities | Centre of Excellence for Health (centresofexcellencenb.ca)

Centre of Excellence HEALTH

EXPERIENTIAL LEARNING WITH COE ENERGY

Students from Riverview Middle School and Salisbury Regional School enhanced their learning on renewable energy by taking a field trip offered by COE Energy.



This experiential learning opportunity of the Wocawson Wind Farm was provided with support from NB Power and Natural Forces. Students learned about the development and operation of wind farms and how safety is critical on job sites. Thank you to NB Power for providing bussing and Natural Forces for hosting this tour!



ELECTRICITY FUNDAMENTALS IN CANADA PROFESSIONAL LEARNING

Are you interested in learning more about electricity? COE Energy is looking for 10 teachers to take the [Electricity Fundamentals in Canada](#) course offered by [Electricity Canada](#). Teachers will receive one day's remuneration upon completion of this five-hour course. Interested teachers should email adam.trider@gnb.ca. The course must be completed by Feb 28, 2023.

For more information, check out [Electricity Fundamentals in Canada](#) | [Electricity Canada](#)

TOUR OF MACTAQUAC GENERATING STATION AND MACTAQUAC PROVINCIAL PARK

Twenty students from Oromocto High School toured the Mactaquac dam facility and learned about renewable electricity generation from NB Power this month. Following the tour, they traveled to Mactaquac Provincial Park for climate change education from NB Parks.



COE ENERGY PARTICIPATES IN THE LSF CLIMATE ACTION YOUTH FORUM



Students from across New Brunswick participated in climate action education provided by Learning for a Sustainable Future and local partners. Over 120 students and 30 teachers were present. The COE Energy provided a session on renewable energy in NB.

"It was fun, we had a chance to work for ourselves and to learn about the concept of renewable energy and making our energy carbon footprint lower." - Student feedback from COE Energy session

MULTI-GENRE UNIT PLAN FOR ENGLISH LANGUAGE ARTS CLASSES

What happens when teachers from multiple disciplines collaborate to develop a resource on a relevant global concern? You have a fantastic [inquiry-based, multi-genre unit plan](#) created by teachers Colleen and Justine from Kennebecassis Valley High School! Their quest was to bring energy-related content into the ELA classroom. Through speeches, podcasts, infographics, articles and art, this intriguing collection of texts will easily facilitate curiosity and discussion about the importance of renewable energy.

UPCOMING EVENTS

WILDLIFE WEDNESDAY

December 14, 2022 10:30 AM

Moose Calling with Brian Williams
- Williams Woods and Waters
Outfitting

Do you and your middle or high school students want to learn more about the art of moose calling? Do you want to have a Licensed NB Outfitter and award-winning moose calling champion teach your class?

Join Brian Williams, owner of Williams Woods and Waters Outfitters, as he explains the handmade birch bark call, the process of using mouth calls and wild mimicking actions and sounds. He will do a live demonstration and discussion around material used and the process, while also sharing some interesting encounters he's had in the New Brunswick woods.

For more information and Teams Link, please visit the [COE Health Website](#).



100 HOUR MINDFULNESS IN SCHOOLS TRAINING

COE Health was happy to support four teachers from around the province to participate in the 100-hour Mindfulness in Schools training course being offered by Breathing Space with Blair Abbas and Jenny Keirstead. The second weekend of the course was completed in Halifax on November 12th and 13th, 2022. Participants included Jill Culligan (ASD-E), Deanna Valin, (ASD-W) Amanda Morrison, (ASD-S), Mae Cameron (ASD-N).



SHANNEX, NEILL HALL AND STUDENT HALLOWEEN EVENT



Shannex, COE Health, and the Experiential Learning Coordinator in ASD-W partnered to organize a fun intergenerational activity on October 28, 2022 for 250 students and 64 residents living at Neill Hall in Fredericton, NB. Students from Leo Hayes High School and Gibson Neill Elementary brought Halloween decorations to Neill Hall to share with the residents at the home before trick-or-treating their way

through the hallways. The LHHS Leadership and Essential Skills students provided guidance and support for younger students, teachers, and residents throughout the morning. Shannex provided healthy treat bags for the students. Everyone was extremely excited to participate in a FUN and SPOOKY intergenerational activity while exposing students to careers in long term care.

"I believe that any experience that opens and broadens our students' minds, is a worthwhile endeavor. This combination of older/younger generations and seeing the benefits firsthand is an exceptional experience for the young leaders of LHHS." – Brad Mahar, LHHS Leadership Teacher

NBCC ALLIED HEALTH TOUR

The Centre of Excellence for Health and NBCC kicked off Allied Health week with a tour of the NBCC Allied Health Centre in Saint John. Fifty-two students from St. Malachy's Memorial High School had the opportunity to tour the Allied Health Centre on the NBCC Saint John campus.



CENTRE OF EXCELLENCE FOR HEALTH

EXPERIENTIAL LEARNING AT HAYES FARM

The COE Health and ASD-W Experiential Learning Coordinator were thrilled to help organize a Fredericton High School student visit to Hayes Farm in Fredericton. Will Milner's Nutrition for Healthy Living 120 classes learned about local, regenerative farming and how Hayes Farm fits into the local supply chain. Students toured the farm before participating in daily maintenance and prep work - weeding, spreading wood chips and cutting back crops to be turned back into the soil.



"The trip to Hayes farm was eye opening. Being outside the regular school environment created more focus for hands-on learning, as well as being able to put yourself in other people's shoes to recognize the hard work these people do to keep up with the farm. It was awesome to learn about something new and to have the opportunity to do so." – FHS student



K-2 Find the Allied Health Professional Lesson & 3-5 Allied Health Board Game

Looking for a way to integrate Allied Health Week into your K-5 classroom? Wanting to expand your students' knowledge of Allied Health professionals and the important work that they do? Check out the COE Health website for two brand new learning activities that will give your students the opportunity to explore the many people making a difference in our health care system, alongside our incredible nurses and doctors. For additional support and pre-made materials to use in your classroom, feel free to reach out to Amy Tompkins at amy.tompkins@gnb.ca.

K-2 students will love getting up and moving around the classroom as they search for the **Allied Health Professional** that matches a real-life scenario!



With dice, a colourful game board, and a little luck, Grades 3-5 students will race to finish the **Allied Health Board Game** - full of questions, discussions, and a few challenges along the way!

CENTRE OF EXCELLENCE FOR ENTREPRENEURSHIP

UPCOMING EVENTS

PROFESSIONAL DEVELOPMENT FOR HIGH SCHOOL MATH TEACHERS

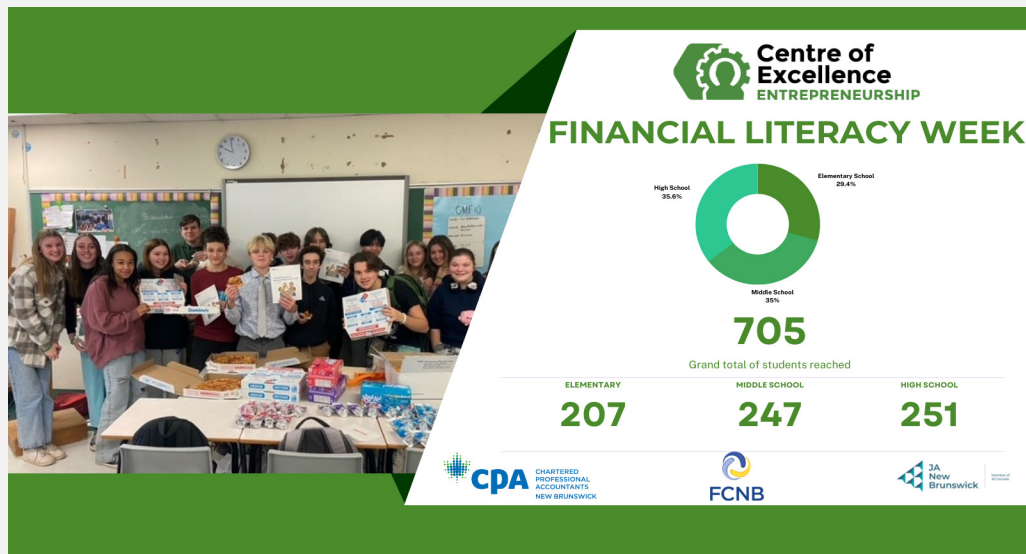
December 14, 2022

The Center of Excellence for Entrepreneurship Lead and our new partner, the Financial and Consumer Services Commission of New Brunswick (FCNB), are hosting a full day professional learning session for teachers of GMF10, Foundations of Math110, Financial and Workplace Math 110 and NBCC1208 Skilled Trades Math on November 29, 2022 and December 14, 2022 in ASD-S. Lisa Legere from FCNB will be highlighting key tools and resources to enhance teaching practices. Watch for opportunities coming up to participate across the province! Reach out to COE Lead for Entrepreneurship jill.shaw@gnb.ca for more information



FINANCIAL LITERACY WEEK RECAP

During the week of November 7-10, 2022, COE Entrepreneurship hosted eight live webinars highlighting relevant topics in financial literacy for elementary, middle and high schools. Presentations were provided by our wonderful partners: Junior Achievement New Brunswick, Chartered Professional Accountants of New Brunswick, and the Financial and Consumer Services Commission. Recordings of the webinars can be found on the [Centre of Excellence Speaker Series](#) page.



CRYPTOCURRENCY WEBINAR

Interested in learning more about cryptocurrency? David Shore, Senior Legal Counsel for the Financial and Consumer Services Commission of New Brunswick (FCNB) presented an informative webinar highlighting the meaning behind the term "cryptocurrency." He uses real-life examples to explain the controversial investment method that has piqued the interest of teenagers. David also outlines how to discern safe versus unsafe investments. View the recorded webinar and other recordings from [Financial Literacy Week 2022](#) on the [Centres of Excellence Speaker Series](#) page.

CLASSROOM SIZED MONOPOLY

This classic board game has been reinvented into a classroom-sized activity, including many New Brunswick tourist attractions. Students will work together to plan a budget and make critical financial decisions. This cross-curricular lesson satisfies various math, social studies and literacy outcomes and is a fun, engaging activity! Visit the [Centre of Entrepreneurship Website](#) to download the activity.



CENTRE OF EXCELLENCE FOR ENTREPRENEURSHIP

INTRODUCING CPA NB

The Chartered Professional Accountants of New Brunswick (CPA NB) are thrilled to partner with COE Entrepreneurship. CPA NB, the professional organization representing more than 3,000 Chartered Professional Accountants in our province, is dedicated to moving our communities forward. They exist to develop and support the best professional business advisors. CPA NB protects the public's interest and participates in improving the socio-economic condition of New Brunswick. Their members occupy various positions across the province and are all united under the same quality: the desire to make a difference for everyone through the work they do.

CPA volunteers provide **free financial literacy education workshops** to help New Brunswickers to improve their financial decision-making skills. These sessions cover financial planning for all stages in life, including 12 sessions specifically for students.

CPA NB members volunteer their time to deliver 45-minute workshops to classes across the province, in English or in French, virtually or in person. View [the list of financial literacy topics for elementary, middle school, and high school students](#) online (sessions can also be requested directly from this website) or contact [Danielle Pieroni](#) for more information.



CPA

CHARTERED
PROFESSIONAL
ACCOUNTANTS
NEW BRUNSWICK

DID YOU KNOW?

Entrepreneurship is alive and well in New Brunswick

Over the next five years, New Brunswick expects to have almost 20,000 job openings in Business, Finance, and Administration.



FINANCIAL LITERACY WEEK CONTEST WINNERS

Mme. Merry's Grade 10 Geometry, Measurement and Finance (GMF) class from KVHS were the lucky winners of the pizza party sponsored by our partner, Certified Professional Accountants of New Brunswick (CPA NB)! They completed a class scavenger hunt of the COE for Entrepreneurship website and attended two of the eight webinars offered during Financial Literacy Week. CPA NB were also kind enough to deliver swag for the entire class. Congrats Mme. Merry and Kennebecasis Valley High School!



**Centre of
Excellence**
ENTREPRENEURSHIP

CENTRE OF EXCELLENCE FOR DIGITAL INNOVATION

UPCOMING EVENTS

HOUR OF CODE 2022

Week of December 5, 2022

Teachers and schools are invited to participate in the Hour of Code for 2022. Try a one-hour tutorial designed for all grades here: <https://www.canadalearningcode.ca/canada-learning-code-week>. Participating schools are encouraged to share photos of their students participating and **submissions will be entered to win a lunch party for their class.**



CSEd WEEK 2022

Week of December 5, 2022

Join in as we celebrate the start of [Computer Science Education Week](#)! We'll hear from a select panel of the [2022 CS Heroes](#) about their own progress and celebrate community milestones in CS education. Our panelists will discuss their own journeys to computer science, what has inspired them, and their recommendations for how we can continue to advance so that every student has an equal opportunity to learn computer science. #CSEverywhere #CSEdWeek



DIGITAL LITERACY FRAMEWORK

Have you ever heard of the phrase "digital literacy"? Just like traditional literacy or the concept of "financial literacy", the literacy around using digital devices is specific and multi-faceted. Did you know that our K-12 education system in NB has a new framework to help with the implementation of digital literacy in schools? The digital literacy framework, which was written by Matt McGuire (former ASD-W teacher and technology coordinator and current McKenna Institute Fellow at UNB) and further developed by Andrew Colwell at EECD, is now live and can be accessed by all at the [Virtual Learning SharePoint site](#).

Six domains of Digital Literacy



Digital literacy defined is "the harmony of digital skills, attitudes, and behaviors that help learners achieve their goals and become thoughtful and able citizens that contribute to the betterment of society and the common good".

In coming weeks and months, keep an eye out for a variety of professional learning opportunities for teachers and for more learning activities and experiential opportunities around the Digital Literacy Framework to be featured on the Centre of Excellence for Digital Innovation website.

MAPLEHURST MIDDLE SCHOOL VISIT

COE Digital Innovation lead, Adam Binet, recently visited Maplehurst Middle School in Moncton to work with them on setting up their video recording studio which will be used to promote various school events and to do daily morning video announcements. With just a few key pieces of equipment, setting up a studio like this is within reach for many schools and provides an awesome learning opportunity for both teachers and students. Adam also helped Maplehurst with some graphic design projects and supported the set-up of a new wide-format printer which is capable of printing cinema-sized full-colour posters and banners for use in the school.



CENTRE OF EXCELLENCE FOR DIGITAL INNOVATION

FIND THE SILVER FOX - THINKING LIKE A COMPUTER

Have you ever tried to find a fox? It's not as easy as you might think! In this inquiry-based activity, students will create step-by-step instructions in a real-life maze to find those mysterious New Brunswick creatures, just like a computer-programmer. To try this in your classroom, all materials can be found on the [Centre of Excellence for Digital Innovation website](#).



WHAT IS A SOFTWARE ENGINEER?

A software engineer, also referred to as programmer or developer, is someone who writes computer code (some sample programming languages are Python, Java and C++). Computer code can be written to do a lot of things, from a minor task like automation, right up to the development of large software programs like Microsoft Word or an entire operating system (like Windows). To become a software engineer, a bachelor's degree, usually in computer science, computer systems engineering, software engineering or mathematics or completion of a college program in computer science is usually required. However, there has been a rise in shorter programs, anywhere from a few weeks to a few months, that allow participants to gain training and skills in the form of a "bootcamp" which can sometime be enough to find a job in the field. The demand for programmers has risen in recent years, including here in New Brunswick, with a healthy job market for job seekers. Visit the [Centre of Excellence for Digital Innovation Speaker Series](#) page where you can watch videos from the student perspective about taking software engineering in post-secondary.



INTRODUCING ICTC

EECD and ICTC have a working relationship going back many years. The Information and Communications Technology Council (ICTC) is a not-for-profit, national centre of expertise for the digital economy. ICTC is the trusted source for evidence-based policy advice, forward looking research, and creative capacity building programs, with a team of over 90 qualified professionals across Canada. ICTC's mission is to "Strengthen Canada's digital advantage in a global economy." ICTC works in the K-12 education system in various ways across Canada, including their CyberTitan national student cybersecurity competition, the Focus on Information Technology certificate program, as well as the DigitalYouth program which creates learning pathways for youth toward digital careers. For more information go to <https://www.ictc-ctic.ca/>

CENTRES OF EXCELLENCE CONTACT THE LEADS

HOW TO ENGAGE WITH THE CENTRES OF EXCELLENCE

COE Website – Includes classroom activities, live events, experiential learning opportunities, career pathway information and speaker series videos.

COE Newsletter – Sent directly to your inbox on the last week of each month. It includes information about upcoming events, announcements, and stories from the centres!

Twitter - @NBCOE

Connect directly with a COE Lead for collaboration and support, sign up for our mailing lists, or email COE@gnb.ca with your questions.



SUSTAINABILITY IN TOURISM STUDENT CONTEST

Do you know a student interested in the Hospitality and Tourism sector? Are you motivated to drive a positive change in New Brunswick's Tourism? The Tourism Industry Association of New Brunswick (TIANB), in partnership with The Department of Education and Early Childhood Development, is hosting the Sustainability in Tourism Contest. By interviewing an operator or showcasing a tourist destination, students will explore how and what operators and destinations are doing in the realm of social justice, economic development, and environmental integrity. In a project of their choice, students will use the Sustainable Development Goals to guide their submission and interview.

For contest guidelines, and to join, contact your district Experiential Learning Coordinator:

Robert.gillis@nbed.nb.ca (ASD-N)
Bobbie.craft@nbed.nb.ca (ASD-S)
Crystal.roberts@nbed.nb.ca (ASD-W)
Anna.paradis@nbed.nb.ca (ASD-E)

Registration deadline: January 13, 2023 at 4:00 pm
Entry Deadline: April 27, 2023 at 4:00 pm

QUESTIONS? CONTACT THE COE LEADS



Adam Trider
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Jill Shaw
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