

CENTRES OF EXCELLENCE

Newsletter

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K-5 ENERGY EFFICIENT GINGERBREAD HOUSE VIRTUAL EVENT

A HUGE thank you to all of the teachers and students who participated in our first annual Energy-Efficient Gingerbread House Virtual Event on December 21! We had over 45 teachers and 928 students from all four districts join us. A special thank you to Bristol Elementary (ASDW) for letting us host the afternoon session LIVE from their school! Not only did classes learn about energy-saving products but they were challenged to put as many of those products into their own constructions, collecting points for their overall energy score. The creations were impressive (and tasty!). We even had a special virtual visit and a read aloud from the North Pole! It truly was an amazing event!



*Lots of creative planning
and innovative designs from
around New Brunswick.*



**Centres of
Excellence**
PARTNERS IN EDUCATION

FUTURE NB 

**FUTURE
WABANAKI** 

UPCOMING EVENTS

INTERNATIONAL DAY OF WOMEN AND GIRLS IN SCIENCE

On February 10, 2023 join the Centres of Excellence to celebrate the **International Day of Women and Girls in Science**. The United Nations has declared this day in order to highlight the importance of achieving full and equal access to participation in science and further achieving gender equality through the empowerment of women and girls. There will be a **series of webinars** running throughout the day celebrating the contribution of women and girls to science and technology fields in NB.

For links to the webinars, visit **International Day of Women and Girls in Science** | Centre of Excellence for Energy (centresofexcellencenb.ca)

ENERGY RESOURCE DEVELOPMENT

Have you and your students been studying energy? Are you interested in developing resources for the COE Energy website?

Join the COE Energy for two days of resource development on March 8 and 9, 2023 in Saint John. Participant's travel, meals and accommodation will be covered and each participant will receive remuneration for their time. If you have a passion for energy and would like to be considered for this opportunity, please email Adam Trider at adam.trider@gnb.ca.

TEACHERS IN ASD-S PARTICIPATE IN COE ENERGY PL

Seventeen teachers from across ASD-S recently participated in professional learning with COE Energy Lead Adam Trider. The grade 7 and 8 teachers worked through curriculum connected activities that focused on energy elements found in the space exploration and thermal transfer units.



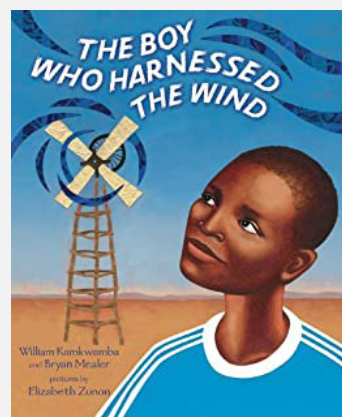
BESSBOROUGH SCHOOL EXPLORES ENERGY



With support from the COE Energy, Julie Gautreau's grade 5 class at Bessborough School in Moncton explored wind energy. Students designed and built wind turbine blades and tested variables like the number of blades, pitch, size, shape and materials. For more activity ideas, visit Learning activities | Centre of Excellence for Energy (centresofexcellencenb.ca)

THE BOY WHO HARNESSSED THE WIND (PICTURE BOOK) GUIDE FOR GRADES 2-5

Imagine the power of a young boy's knowledge, creativity and determination literally changing a community forever! Students will be inspired to put their own learning and imagination into action after reading the picture book, "The Boy Who Harnessed the Wind," written by William Kamkwamba and Bryan Mealer. This guide provides pre-reading activities, as well as a wind energy building challenge for students in Grades 2-5. We hope through these activities the wind will serve as a reminder of what true innovation can bring!



For a detailed look at this lesson, visit [The Boy Who Harnessed the Wind \(Picture Book\) Guide for Grades 2-5](#) | Centre of Excellence for Energy (centresofexcellencenb.ca)



UPCOMING EVENTS

WILDLIFE Wednesday Virtual Class

February 15, 2023

English presentation 10:30 - 11:15am

French presentation 1:30-2:15pm

Do you and your middle or high school students want to learn more about the basics of fly fishing? Do you want to have a certified fly fishing instructor and fly fishing shop owner teach your class?

Join Denis Boudreau from "Jax Flies" in this Interactive live 45-minute session exploring the basics of fly fishing and where you can fly fish in New Brunswick. Visit the [COE Health website](https://centresofexcellencenb.ca) for more information.



ALLIED HEALTH WEEK SUCCESS!

Jennifer Craft is part of the amazing school counselor team at St. Malachy's High School in Saint John. Jennifer shared the Allied Health Week schedule with her students and attended ALL of the presentations throughout the week. The COE Health would like to thank Jennifer and the students at St. Malachy's for helping to make Allied Health Week a huge success.



Over 400 students across the province participated in these sessions! If you would like to view the Allied Health Career recorded presentations with your classes, please go to the speaking series tab on the [COE Health Website](https://centresofexcellencenb.ca). [Speaker series](https://centresofexcellencenb.ca) | Centre of Excellence for Health (centresofexcellencenb.ca)

"Congratulations to the Centre of Excellence and Horizon Health on an excellent Allied Health Week. The quality of the virtual classes, and apparent knowledge of the presenters, provided invaluable advice and direction for participants considering careers as allied health professionals. I have already, and will continue, to share the recordings in the Speaker Series to students unable to attend the live sessions. Nothing compares to hearing directly from the professional working in a field. Thank you from St Malachy's!"

-- Jennifer Craft, St. Malachy's High School

YOGA 110 STUDENTS PARTICIPATE IN NATURE BATHING IN ST. MARTIN'S, NB

The COE Health was extremely excited to support the St. Malachy's Yoga 110 class participating in an experiential learning opportunity at Massage by Nature Therapy in St. Martin's, New Brunswick. The students spent the chilly day outside "Forest Bathing" and participated in mindfulness activities, a group hike, and yoga.





CENTRE OF EXCELLENCE FOR HEALTH

"TOM THE TOMATO PLANT" LIVE VIRTUAL EVENT: AUTHOR MEET & GREET ON FEBRUARY 10, 2023

Atlantic-Canadian author, singer-songwriter and social media innovator, Dave Carroll, has written a beloved children's book highlighting themes of self-awareness, kindness, and compassion. Accompanying this amazing story, Dave has also composed an inspiring theme song called, "The Giant" with words and melody to touch any heart! You and your students will fall in love with Tom the Tomato Plant as well as be encouraged to discuss, plan and do acts of kindness for yourself and for others.

There is limited registration for the LIVE Virtual Event: The first two classes (K-2 and 3-5) from each district will receive a Teams meeting invitation, a class copy of Tom the Tomato Plant, and a printed cross-curricular book guide with pre and post reading activities included. To register, simply send an email to amy.tompkins@gnb.ca.

Not able to join us on February 10th? Additional copies of the book and printed book guides will be available upon request on a first-come, first-serve basis. Check out our website for the book guides at any time: [K-2 - Tom the Tomato Plant: K-2 Book Guide](#) | Centre of Excellence for Health (centresofexcellencenb.ca) and [3-5 - Tom the Tomato Plant: 3-5 Book Guide](#) | Centre of Excellence for Health (centresofexcellencenb.ca).

DID YOU KNOW...

The **job prospects for long-term care aids** are projected to grow over the next few years as there will be a growth in employment, new positions offered, and new positions opening up due to retirement.

There are approximately 6,750 people in New Brunswick working as long-term care aides.

New Brunswick currently has 71 long-term care homes, owned by either for profit organizations or not-for-profit organizations.

New Brunswick's senior population is predicted to double over the next 20 years.

Students in NB can enroll in a LTC Enhanced COOP program.

Students thinking about careers in health care should consider the Long Term Care COOP. See what students are saying about it here [Long-Term Care Coop 120](#) | Centre of Excellence for Health (centresofexcellencenb.ca)



AUTHOR MEET & GREET DAVE CARROLL

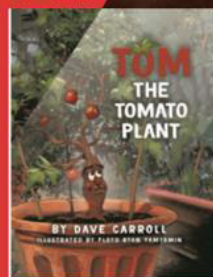
FEBRUARY 10, 2023

K-2: 9:30 - 10:00 AM

3-5: 11:00-11:30 AM

LIVE Reading MUSIC Q & A

Classes will also receive a copy of the book and activity guide!



REGISTER NOW - EMAIL: AMY.TOMPKINS@GNB.CA



**Centre of
Excellence**
HEALTH



CENTRE OF EXCELLENCE FOR HEALTH

HOLIDAY INTERGENERATIONAL ACTIVITIES

Fifty Gibson Neill Elementary students spent the morning at Shannex, Neill Hall home on Dec 22nd. The ASD-W Experiential Learning Coordinator, the COE Health Lead, students, teachers, and staff played "Holiday Bingo", painted ornaments, decorated the tree and sang carols while participating in the FUN Intergenerational event.

The Garden Creek School Grades 3-5 choir did a lovely job performing their holiday songs for the residents at Shannex, Neil Hall in December. They coloured holiday cards and ornaments to add to the wall display at the home and passed out cards to the residents.



LONG-TERM CARE WEEK

COE Health, The New Brunswick Association of Nursing Homes (NBANH) and Shannex are celebrating Long-Term Care Week from February 13 - 17, 2023 with live webinars, Long-Term Care (LTC) facility tours, and an opportunity to learn about the various employment opportunities at LTC Homes. Visit the [COE Health Website](#) to find out more about the Long-Term Care Week events, or keep reading for a summary of opportunities to engage!

Among New Brunswick's 71 nursing homes, a sense of community is created by the invaluable team of employees caring for our seniors, which often includes: nurses, Licensed Practical Nurses, cooks, maintenance, activity coordinators, recreation therapists, dietitians, doctors, physical therapists, clergy, administrators, hairdressers, pharmacists, physiotherapists, etc.

The New Brunswick Association of Nursing Homes (NBANH) is currently recruiting for the positions of: Registered Nurse, Licensed Practical Nurse, and Resident Attendant (Personal Support Worker). These jobs are essential in providing care to members of our community who live in Nursing Homes. NBANH connects workers with the 71 nursing homes in NB that are looking to fill positions in rural communities as well as urban centers. Please reach out to Emma Bradford, RRCoordinator@nbanh.com at NBANH or Michelle Smith msmith@shannex.com at Shannex if you would like more information.



LONG TERM CARE WEEK FEB 13TH - 17TH

The COE Health, NBANH and Shannex are celebrating Long Term Care week from February 13th to 17th with live webinars, Long Term Care (LTC) facility tours, and an opportunity to learn about the various employment opportunities at LTC Homes.

If you would like support or guidance while planning Intergenerational opportunities, facility tours and activities for your students and school, please reach out to the Experiential Learning Coordinators in your district and/or Centre of Excellence for Health Lead, Daneen Dymond.



**Centre of
Excellence**
HEALTH

1

Intergenerational Resource Package and Interactive NB Map - An interactive map of NB Schools and Nursing homes in the province has been created by the COE Health, District Experiential Learning Coordinators, The New Brunswick Association for Nursing Homes, Shannex and the Department of Social Development.

2

Virtual Tour of a New Brunswick Long Term Care (LTC) Home - Explore the video tour of Loch Lomond Villa created by The Centre of Excellence for Health and the New Brunswick Association of Nursing Homes (NBANH).

3

Long-Term Care Coop 120 - The Long-Term Care Coop Program is an experiential learning opportunity that allows students to complete a coop placement in a long-term care facility while also completing an online course to earn a certificate of completion.

4

Classroom Learning Activities – Learn more about the Narrative Care Project for Grades 6-12, or the "Journey Through Carrington House" Video Game for Grades 3-8 on the COE Health website

CENTRE OF EXCELLENCE FOR ENTREPRENEURSHIP

UPCOMING EVENTS

HIGH SCHOOL WEBINAR WITH JUNIOR ACHIEVEMENT ON WORK READINESS

February 28, 2023 10:00am and
1:30pm

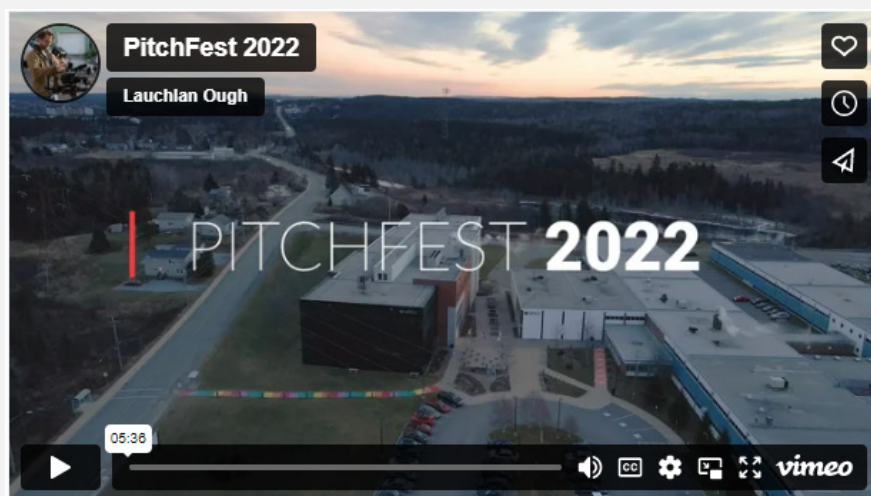
Students will think about their skills and how to match them to potential careers. They'll start to "Plan for their Success" by identifying personal qualities, potential career interests, post-secondary options and start to develop strategies to achieve their goals. Please use the following link to join the virtual webinar: [High School Webinar with Junior Achievement on Work Readiness and Career Goals](https://vimeo.com/782741901/e3ee4a1e25) | Centre of Excellence for Entrepreneurship (centresofexcellencenb.ca)

PITCHFEST 2022

Congratulations to the 2022 New Brunswick PitchFest champion, Evan Reissig of Saint John High School! Evan's two-minute pitch for creating a children's novel for dyslexia won the \$500 top prize, sponsored by Community Business Development Corporation of New Brunswick (CBDC), and impressed the panel of judges from across New Brunswick. Second place was awarded to Xander Perkins of Harborview High School and third place to Sephr Bastani of Saint John High School. Special thanks to our partners for providing judges and sponsorship: CBDC, New Brunswick Chartered Professional Accountants, Junior Achievement NB and NBCC. The Pitchfest 2022 video can be viewed here: <https://vimeo.com/782741901/e3ee4a1e25>



Are you a student enrolled in Entrepreneurship 110 or Business Organization Management 120? Don't miss Spring Pitchfest 2023 coming up on May 16, 2023 at NBCC Moncton!



CENTRE OF EXCELLENCE FOR ENTREPRENEURSHIP

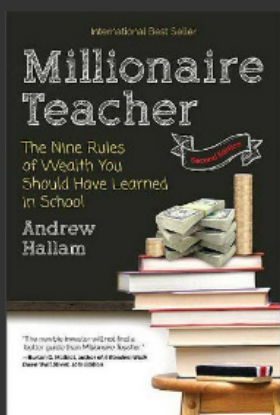
PROFESSIONAL LEARNING FOR HIGH SCHOOL MATH TEACHERS OF FINANCIAL LITERACY RECAP

The Center of Excellence for Entrepreneurship Lead and our partner, New Brunswick Financial and Consumer Services Commission (FCNB), hosted two full-day professional learning sessions for teachers of GMF10, Foundations 110, Financial Workplace 110 and NBCC1208 Trades Math on November 29th and December 14th in Anglophone South. Lisa Legere from FCNB highlighted key tools and resources to enhance teaching practices. Watch for opportunities coming up to participate in ASD-North, East and West! Reach out to COE Lead for Entrepreneurship jill.shaw@gnb.ca for more information.



PROFESSIONAL LEARNING: BOOK STUDY - THE MILLIONAIRE TEACHER

Join Jill Shaw, Centre of Excellence Lead for Entrepreneurship, to read and chat about Andrew Hallam's New York Times Best Seller for Financial Literacy: The Millionaire Teacher. Copies of the book will be mailed to participants' schools by district and correspondence will take place via Microsoft Teams. Due to shipping delays, the book study will kick off in mid-February and run until mid-May. If you have already registered, please accept the Microsoft Teams invite in the coming days where all details will be posted! Email jill.shaw@gnb.ca to register and receive a book.



KENNEBECASIS VALLEY HIGH SCHOOL ESSENTIAL SKILLS CLASS VISIT

Jill Shaw had the opportunity to visit the Essential Skills program at KVHS, which helps students increase their experiences in the world beyond high school through innovative projects, problem-solving and experiential learning. This program enables students to steer their own education while seeking opportunities to empower themselves, their peers, and the community. Current projects and experiences include: pharmacy placements, building a greenhouse, mental health social media posts, Irving job shadowing, contributing to school climate and culture, fitness grants, and online courses in specific areas of interest.

PLASTIC REUSE PROJECT

This cross-curricular learning activity explores how students can divert plastic from the landfill or a recycling bin and convert it into a sellable product. Students will explore issues with plastic recycling and contemplate how to help solve environmental issues. This learning activity encompasses six global competencies! [Plastic Reuse Project – A Learning Activity for Grades 9-12](#) | Centre of Excellence for Entrepreneurship (centresofexcellencenb.ca)



CENTRE OF EXCELLENCE FOR DIGITAL INNOVATION

UPCOMING EVENTS

GIRLS STEM UP! CONFERENCE

Saturday, March 18, 2023

UNB Girls STEM Up! is an all-day, hands-on learning conference for students in New Brunswick Schools taking place on Saturday, March 18, 2023 in Fredericton. Girls STEM Up! brings students and allies together, across Atlantic Canada, to engage in conversation and share diverse views on leadership and female empowerment within STEM. We look forward to making a meaningful difference and inviting all who share our goals to join us as we embark upon this exciting endeavor.

Further details to come, follow <https://www.instagram.com/girlsstemup/> for more!



OUR GOAL

Girls STEM Up! is a conference that brings students and allies together, across Atlantic Canada, to engage in conversation and share diverse views on leadership and female empowerment within STEM. We look forward to making a meaningful difference and invite all who share our goals to join us as we embark upon this exciting endeavour.



GSU 2023



SUCCESS STORY: USING DIGITAL TOOLS FOR CROSS-CURRICULAR STUDENT EXPRESSION AND PROJECTS

In early January, the Centre of Excellence for Digital Innovation lead had the opportunity to work with teachers Megan Young-Jones and Stephen Stone at Hanwell Park Academy.

Megan and Stephen came to the COE after having received some audio recording and green screen equipment from our partners at Brilliant Labs with some very innovative ideas! They hope to implement project-based learning around podcasting, storytelling, and using the green screen to hit multiple curricular outcomes in English Language Arts and Social Studies.



CAREER PROFILE: PENETRATION TESTER (ETHICAL HACKER)

Did you know there are dozens of different types of job roles and career pathways in cybersecurity alone? A career in cybersecurity requires individuals with strong technical skills, but there is also a need for individuals with other, liberal arts education, in areas such as psychology, sociology, criminology and more.



One such role, that of a "Penetration Tester," is a particularly interesting role. "A penetration tester, also commonly known as an ethical hacker, is a network security consultant who exploits a system's vulnerabilities just like a hacker would. They design new penetration tools, and they also document the test

results. A pen tester is considered a white hat or good hacker. Although they must think like a bad guy, the end goal is to help organizations improve their security practices to prevent theft and damage. Pen testers target traditional operating systems and devices as well as emerging technology, including Internet of Things (IoT) devices, mobile devices, embedded systems and more." According to Lighthouse Labs, "The average salary in Canada for a penetration tester is \$76,195."

CENTRE OF EXCELLENCE FOR DIGITAL INNOVATION

UPCOMING EVENTS

GO CODE GIRL

March 26, 2023 9:00am - 12:00pm

A hands-on day of learning, discovery, and networking for NB students. Discover the power of coding. Go Code Girl is for girls, including all who identify as female, in grades 7-12 and this year's conference will be held in March 2023. Further information and registration will be forthcoming. For more information, be sure to follow:

<https://www.instagram.com/unbgocodegirl/>

If you would like to meet the co-chairs of this year's conference, you can [watch this video](#), where COE Digital Innovation lead, Adam Binet, interviews UNB Software Engineering students Paige Corbyn and Grace Asheifld. Grace and Paige discuss their upcoming conference and their experience in high school in NB and their impressions of their time at UNB to date.



LOOKING FOR CONTENT CREATORS OR TO BOOK IN CLASSROOM VISITS

Are you a teacher who has infused digital technologies into your classroom in a various course to meet different outcomes? Do you have solid lesson plans and activities that leverage technology in new and novel ways? If you would be open to collaborating with COE Digital Innovation Lead, Adam Binet, we would love to hear from you and discuss ways to partner and to help create content and learning activities to be featured on the [COE Digital Innovation website](#).

Are you a school looking to have digital technologies infused into a variety of curriculums? Are you in need of your students attending an assembly or workshop on digital literacy and digital citizenship?

If you answered yes to any of those, please email adam.binet@gnb.ca to begin the conversation!

THE CENTRE OF DIGITAL INNOVATION CAN HELP!

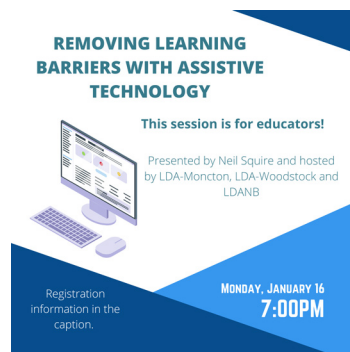
Do you have an idea or have some equipment in your school but need a little help to learn how to use it and some ways to reach curricular outcomes for your classes? Drop COE Digital Innovation lead, Adam Binet (adam.binet@gnb.ca) an email and see how he may be able to assist!

CENTRE OF EXCELLENCE FOR DIGITAL INNOVATION

REMOVING LEARNING BARRIERS WITH ASSISTIVE TECHNOLOGY

MONDAY, FEBRUARY 13, 2023 7:00PM

Curious about using assistive technology in the classroom to support learners? Join us to learn how to access services from Neil Squire. We will walk you through the process to access services such as Assistive Technology Consultations, Assistive Technology Assessments, and Training. We will also touch on built-in tools available to all students that can help remove learning barriers to enhance their individual learning outcomes. Our partnership can help level the playing field for all! [Click here for more information and to register.](#)



CISCO'S INTRODUCTION TO CYBERSECURITY DIGITAL BRIDGE COURSE

Teachers, are you interested in doing self-paced professional learning, asynchronous courses and getting remuneration for successful completion of it? If so, the Cisco "Introduction to Cybersecurity" course is for you. Not only will you get paid, but you will also achieve a Cisco Digital Badge. This could open the door to many more self-based IT based courses for you.

Lean cybersecurity basics to protect your personal digital life and gain insights into the biggest security challenges companies, governments, and educational institutions face today. The course takes about 6 hours to complete, includes 7 different labs, is available in 6 languages and is a beginner level course.

For more information email adam.binet@gnb.ca.

THE PEGASUS SPYWARE SCANDAL

A recently posted learning activity that can be found on the [COE Digital Innovation website](#) is all about the Pegasus Spyware that was, unbeknownst to users, a sort of spyware that infected over 50,000 prominent figures' personal cellphone devices. In this activity, students will learn about the dark, pervasive, and real threat that all of us, especially those in public life (such as politicians, journalists, CEOs and more) face in a hyper-connected world. When our daily devices, such as our phones, tablets and laptops can seemingly be "hacked" and have spyware installed on them without the user knowing, it can present major problems for the individual, organization, government, businesses or more. Surveillance technologies like Pegasus are "a military weapon used against civilians, and the civilians, they don't have any mechanism to help them in seeking justice," says Laurent Richard, founder of Forbidden Stories and Forbidden Films and one of the producers of the films.

Aimed at high school students in technology or journalism classes, this documentary digs into the nexus of critical thinking and emerging technologies in our day-to-day lives. Students need to become equipped with digital literacy skills to allow them to fully understand the world, recognize threats and disinformation, and to have the intuitive ability to avoid these things. Did you know that one of the six components of digital literacy is "critical inquiry and meaning making"? This component is all about teaching "Learners [to] use and create digital technologies to locate information appropriate to the task by seeking a variety of sources, collect information representing diverse perspectives, systematically question and assess the validity and accuracy of information, organize data by priority, topic, or other systematic schema, interpret information gathered, and draw conclusions based on critical analysis and prior knowledge and experience."



CENTRES OF EXCELLENCE CONTACT THE LEADS

OROMOCTO HIGH SCHOOL COE SCAVENGER HUNT WINNER!

Oromocto High School and The Centres of Excellence teamed up on some activities to support career education month organized by the wonderful school counselor team at the school. Students had the opportunity to complete website scavenger hunts for COE Health, COE Entrepreneurship, and COE Energy and be entered in a draw to win a prize. Grade 11 student, Brady Atherton, was the lucky winner of a pair of AirPods after completing all three scavenger hunts! Brady said that he enjoyed learning all about career opportunities in New Brunswick. Well done Brady!



CONGRATS TO MRS. RALSTON'S GRADE 3 CLASS!



Congratulations to Mrs. Ralston and her grade 3 class for winning the healthy meal sponsored by COE Health after participating in the "12 days of Health" holiday activities. It was awesome seeing how creative the students were!

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!



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



Twitter - @NBCOE - Follow us on Twitter to see what's happening at the Centres of Excellence between newsletters.

QUESTIONS? CONTACT THE COE LEADS



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