BUILDING MINERAL LITERACY THROUGH STEM EDUCATION
EST. 94
mining MATTERS

Mining Matters
Annual Newsletter

2022

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Message from the CEO

Mining Matters continued to thrive in 2021-2022. Through GEMS kits, school programs, and public outreach events, we reached 25,000 students, teachers and members of the public with mineral resources education. It has been exciting to see new initiatives come to fruition and for our staff to return to the classroom after nearly two years of virtual delivery.

One of our goals is to involve youth in the minerals industry through meaningful learning activities and innovative STEM education programs. We developed a new workshop about critical minerals, which teaches students about the importance of these natural resources and the role they play in building a low-carbon future. The launch of *Robotics Rocks!* has helped students learn about the uses of robotics in the minerals industry as well as the different career opportunities it creates. We also completed our second virtual escape room, which takes players through an exciting and challenging quest as they look for clues and solve puzzles while learning about geology.

In Saskatchewan, Mining Matters delivered customized professional development workshops for teachers. The tailored *Deeper and Deeper* resource kit provides an in-depth look at potash with resources from the Saskatchewan Mining Association, and includes Indigenous perspectives.

We were inspired by all the students who participated in our WHERE Challenge and WHERE Mini contests. Their creative and thoughtful entries showed us how much young people are making connections between mineral resources and their own lives.

While we had an incredible year, we are only as good as our staff. Thanks to our dedicated team members who carefully designed, printed, and assembled hundreds of activity materials, Mining Matters distributed over one thousand GEMS kits. These kits were enjoyed by more than 3,300 Indigenous youth in 45 communities across Canada. Due to the success of our GEMS kits that were first developed at the beginning of the pandemic, we created GEMS 2.0 and are now developing a third version of the kit, both versions with different sets of activities about geology, engineering, mining, and sustainability.

I am grateful to our dedicated Board of Directors for their commitment to helping us accomplish our goals. I also want to thank Laura Clinton, Executive Director at Mining Matters, for establishing our partnerships with the APGO Education Foundation, the Kitikmeot Inuit Association, the Kivalliq Science Educators Community, and the Nova Scotia Department of Mineral Resources, and our Strategic Advisor, Marg Fraser, for working diligently to secure funding during what has been a challenging period for many charities.

I am very proud of what we have accomplished this year and we could not have done it without the support of our partners, sponsors, and donors. Your generosity supports our efforts to educate youth and the public about the importance of mineral resources and career opportunities in the industry and is critical to our ongoing success.

Patricia Dillon
President and CEO

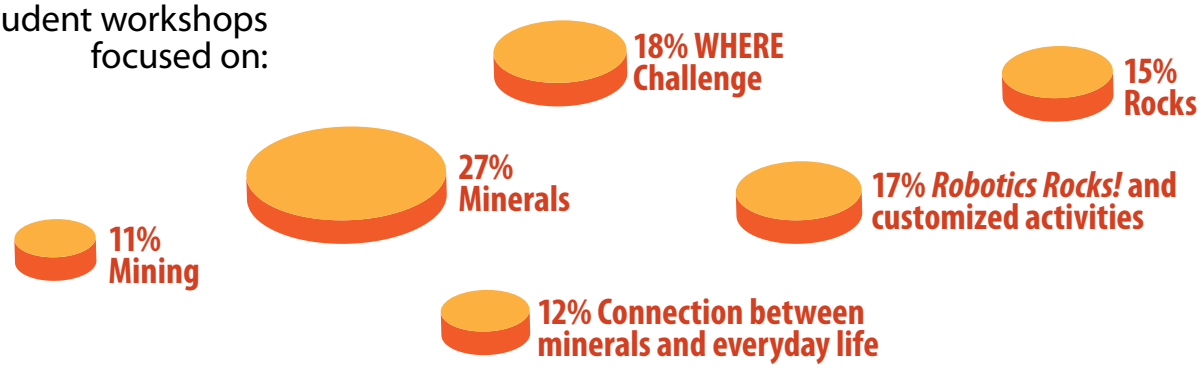
Highlights from the Year

Our programs rely heavily on the support of our donors. The contributions made in our 2021-2022 fiscal year allowed us to promote a greater understanding of Earth science to students, teachers, and members of the public. Since inception in 1994, Mining Matters has reached an estimated 825,000 individuals with our programs and educational materials.

90% of our program participants told us that they learned something new about minerals and their applications in daily life during our workshops.

- More than 3,300 Indigenous youth were engaged through GEMS kits and programs

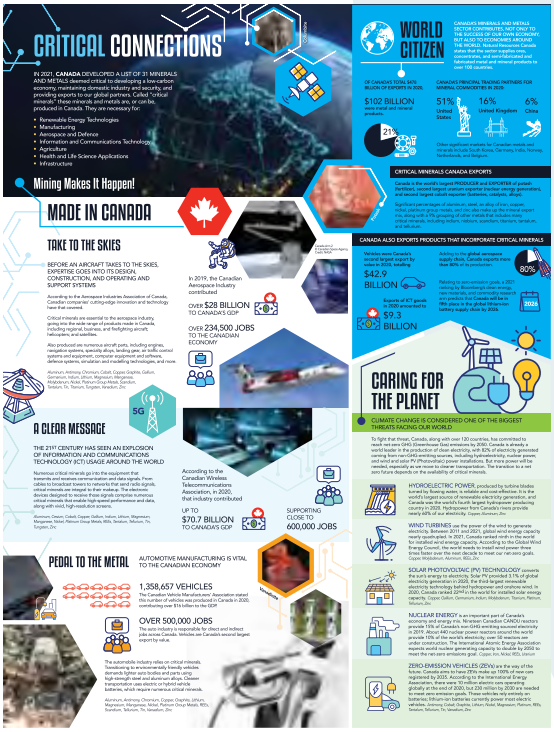
Student workshops focused on:



"The [workshop] was well planned and met many curriculum expectations."
– Teacher, North Bay, ON

Achievements

- Developed a new workshop and poster centered on Canada's critical minerals list
- Reached more than 4,000 students and 200 educators through virtual and in-person workshops
- Partnered with Simon Fraser University, the International Minerals Innovation Institute, and the Saskatchewan Mining Association to design and deliver customized Earth science programs in Saskatchewan
- Prepared and shipped 1,100 GEMS kits to 45 Indigenous communities across Canada
- Built a second virtual escape room: *The Mine, Virtual Escape Experience*
- Developed a new workshop about the uses of robotics in the minerals industry



NEW! Critical Minerals Workshop and Poster

In a 2021 news release, the Government of Canada announced that all new sales of cars and passenger trucks will be fully electric by 2035, resulting in a higher demand for critical mineral resources like cobalt and nickel. This move towards a low-carbon future means it is that much more important to make people aware of the need for mineral resources.

Our latest workshop introduces high school students to Canada's list of critical minerals and their applications. The workshop invites students to explore a selection of materials deemed critical for a clean, sustainable, and digitized future. We help students understand the relationship between these raw materials and their daily lives, modern technologies, and future careers.

The workshop contains three modules:

- **Critical Minerals Lab:** Students are introduced to critical minerals and some of their applications. They also discover the properties and engineering uses of select critical minerals.
- **Deconstruct Technology:** Working in teams, students examine the critical minerals used in a smartphone and trace those materials to their sources while making connections between the minerals industry and global economic markets.
- **What's Next?** Based on the World Café model, students participate in guided discussions to explore issues connected to critical minerals. Here they delve into the complexity of issues to increase understanding of why these minerals are critical from different perspectives.

Through inquiry-based learning, thought-provoking discussions, and hands-on activities, students will analyze what makes a mineral 'critical' locally, nationally, and globally.

Mining Matters had the opportunity to pilot Modules 2 and 3 at the 2022 Annual Meeting of the Geological Association of Canada (GAC) and Mineralogical Association of Canada (MAC), with 24 teachers who participated in a professional development and technical review session. Teachers overwhelmingly agreed that these activities would translate well in a classroom environment, were engaging, informative, increased knowledge of critical minerals, and motivated further learning.

In addition to the workshop, Mining Matters has been working to develop a poster about critical minerals. *Critical Connections* will be the sixth in our Mining Makes It Happen poster series, which conveys the importance of minerals and metals in our everyday lives.

Mining Matters would like to thank the Government of the Northwest Territories for their support of our critical minerals project. As well, a huge thank you to Don Bubar, Mining Matters Director and CEO of Avalon Advanced Materials; NRCan; and our friends from the York Region District School Board, Joanna Bull, Experiential Learning Consultant; and Dennis Stam, Science Curriculum Consultant for providing a technical review of the content.

We are looking forward to delivering this workshop in high school classrooms during the 2022-2023 school year. If you are interested in learning more, please contact info@miningmatters.ca.

New! Deeper and Deeper Videos

We developed a video introducing our *Deeper and Deeper: Discovering Rocks and Minerals* resource for elementary teachers. The 30-second trailer provides an overview of the *Deeper and Deeper* professional development workshop and accompanying resource kit. It features some of the materials included in the kit and gives a preview of the activities delivered during the workshop.

We also completed the Spanish translation of our "unboxing" video, which shows teachers how to use the *Deeper and Deeper* resource. This completes the series of online tutorials meant to serve as a refresher or intended for those who have been given a kit by their school but never participated in a workshop. The translation was completed in collaboration with our partners, Women in Mining Central America and Bluestone Resources, who also helped us translate the entire *Deeper and Deeper* resource into Spanish in 2020.

School Programs Break New Record

At Mining Matters, we strive to make Earth science education relevant through talking about the local geology or demonstrating the uses of minerals. When students can make connections between what they are learning and the world around them, it fosters a greater understanding and appreciation for the content being delivered.

During the 2021-2022 academic year, our staff delivered more than 150 student workshops that addressed provincial and territorial curriculum expectations, included local and regional perspectives and showcased Canadian samples. We reached a record-breaking 4,703 students and 204 teachers. Workshops were delivered in both official languages and in partnership with CIM Northern Gateway, the Government of the Northwest Territories, Impala Canada, Kinross Gold Corporation, Toronto District School Board, and York Region District School Board.

Teachers were invited to select a topic of focus based on four workshop themes:

- "Minerals" – Students examined the physical characteristics of minerals and gaining an understanding of how minerals are used in daily life.
- "Rocks" – Students explored the rock cycle and discovered clues that would help them identify a mystery rock.
- "Mining" – Students explored the mining cycle, discussed the impacts and benefits of mining, and learned about responsibilities to the environment and communities.
- "What on Earth is in your stuff?" – Students examined maps to locate where rocks, minerals and metals are found in Canada, worked in teams to make connections between rocks, minerals, and metals to our everyday life, and discussed finite resources and the importance of being a responsible consumer.

Many students received a hands-on equipment package ahead of time that they could use during the workshop. This was a big hit. "The hands-on learning helped me learn easier because I was actually doing the experiments and not just watching," said one student in North Bay.

We are thrilled that we were able to work with so many students and teachers as we engaged them in activities about Earth science, the minerals industry and related career opportunities. We look forward to heading back into schools this coming year.

School Programs: A Closer Look

Rocks + Kids = Opportunities

Thanks to Kinross Gold, 566 students participated in *Rocks + Kids = Opportunities*. This program gives classes in underserved communities across Canada access to free Earth science workshops.

North Bay Mining Week

Throughout the month of November, we delivered 31 virtual workshops to celebrate North Bay Mining Week. We met with 670 students in Astorville, Corbeil, Mattawa, Nipissing, Nobel, North Bay, Parry Sound, Seguin and South River.

Several schools also received a curriculum-linked resource kit through teachers attending a professional development workshop. During the PD session, teachers examined the many uses of rocks and minerals, explored how soil and erosion affect landscape and land usage, and learned about mining and the benefits and impacts of using products made from mined materials. Each kit contains 39 lesson plans, rock and mineral samples, mineral testing equipment, posters, books and vocabulary resources.

Forty-eight resource kits are now in use in the region – each year they will be used by teachers to engage an estimated 1,200 students.

Thank you to CIM Northern Gateway, Conseil scolaire catholique Franco-Nord, Conseil scolaire public du Nord-Est de l'Ontario, Near North District School Board, and Nipissing-Parry Sound Catholic District School Board for supporting our North Bay programs.

Thunder Bay Workshops

We reached 162 students and 7 teachers in the regional exploration hub of Thunder Bay. With the city being home to hundreds of mine service and supply companies, participants were able to make connections between the minerals industry and what they see on a regular basis. They learned how to identify certain rocks and minerals and the role that these resources play in their everyday lives.

The programs received tremendous feedback and teachers have already expressed their interest in booking new workshops for the current academic year.

Thanks to Impala Canada for their support of this initiative.

York Region District School Board (YRDSB)

A new partnership with the YRDSB allowed for more hybrid workshops. The hybrid model consists of students receiving materials ahead of time so that they can have a hands-on experience while following along with the activities being delivered on screen. Participants also received hand samples that they could keep as a memento or add to their personal collection.

"YRDSB Experiential Learning and STEM look forward to our continued partnership in supporting student well-being and achievement through activities exposing students to knowledge and skills regarding rocks and minerals. This partnership allowed over 1,200 students to participate in innovative virtual learning during the second school year of the pandemic. Mining Matters delivered content through three engaging, virtual workshops: The Where Challenge, What on Earth is in your Stuff, and *Robotics Rocks!*. The project leads were responsive to the needs of students, educators, and consultants before, during and after each session and students were excited to participate in hands-on virtual activities." -Joanna Bull, Experiential Learning Consultant, YRDSB

In the Northwest Territories

Throughout May and June Mining Matters delivered 27 virtual workshops in 11 communities across the Northwest Territories. The virtual offering allowed us to extend our reach beyond the North Slave Region where Mining Matters has delivered in-person programming in previous years.

Workshops were sponsored by the Government of the Northwest Territories.

NWT workshops were delivered in four of the territory's regions:

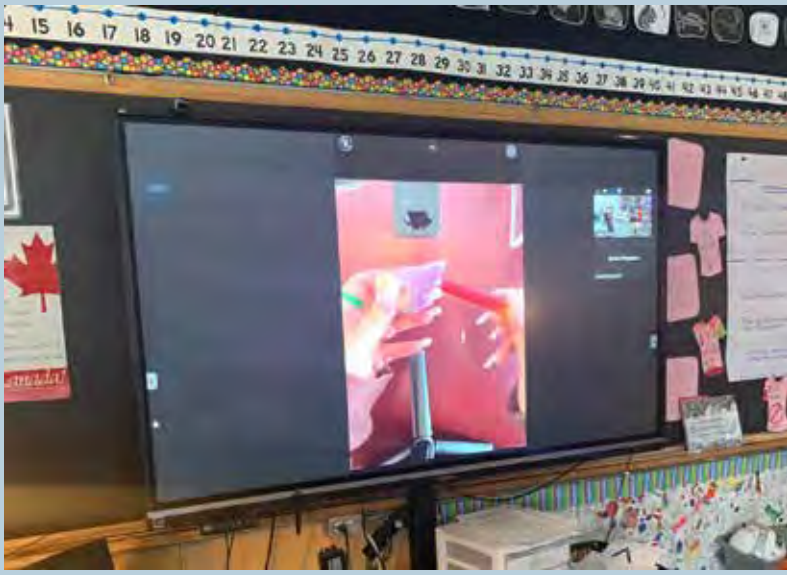
Dehcho
- Fort Simpson
- Nahanni Butte

Inuvik
- Aklavik
- Fort McPherson
- Inuvik
- Tsiigehtchic
- Tuktoyaktuk

North Slave
- Behchokǫ̀
- Yellowknife

South Slave
- Fort Smith
- Hay River

Thank you to all our partners for your continued support of our school programs and to the students, teachers, and administration for your enthusiasm and active participation.



Robotics Rocks! Workshops

In collaboration with Ontario Tech University, we developed a new workshop to introduce students to the role of robotics in the minerals industry. The workshop is carried out over three modules and teaches participants how robotics is used to survey potential mine sites, increase a mine's efficiency, and improve safety during mine operations. Students get to work with mini robots. They also learn about different types of jobs available in the minerals industry.

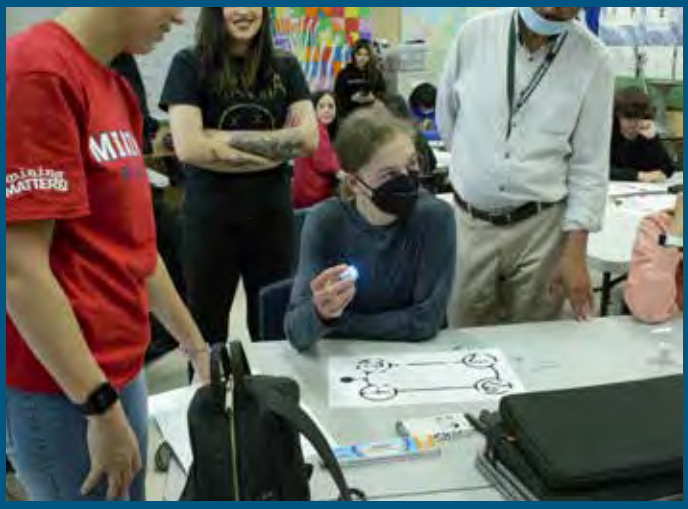
We piloted a series of virtual workshops with seven teachers and 190 students from the YRDSB in May and June. Working in teams, students practised procedural writing, created a flowchart, wrote pseudocode, and then coded a path for their robot to solve a robotics challenge.

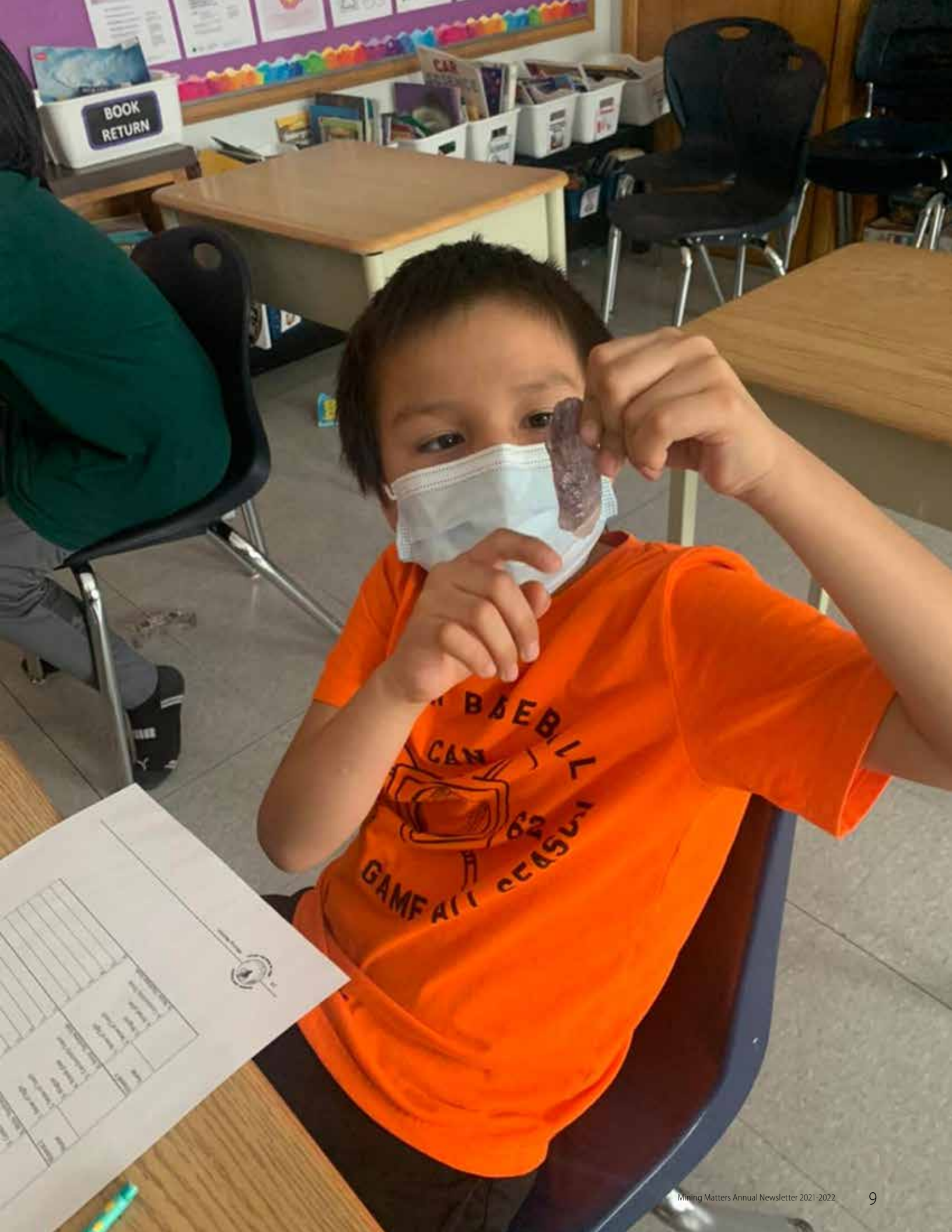
"We need to show young people that the industry is not just about going underground and extracting ore. The need for talented folks who know how to code and can operate a drone is rapidly increasing," said Patricia Dillon, Mining Matters President and CEO. "This new workshop will make youth aware of future technology opportunities in the minerals industry and broaden their career choices."

An in-person workshop was also delivered to a class in Île-à-la-Crosse, SK. The students' faces lit up when the robots started flashing and cries of excitement filled the room as the robots followed the paths they had drawn.

Through this activity, students develop skills in coding, research, teamwork, problem solving, communication, data analysis, and critical thinking.

Robotics Rocks! was made possible thanks to support from the following partners and sponsors: Government of the Northwest Territories, International Minerals Innovation Institute, Kitikmeot Inuit Association, Ontario Tech University (Faculty of Education – STEAM Lab), and York Region District School Board.




BOOK
RETURN

WHERE challenge
Sponsored by Teck

The WHERE Challenge is a national contest endorsed by the Canadian Earth sciences community that motivates students to explore the fields in which geoscientists work: **W**ater, **H**azards, **E**nergy, **R**esources and the **E**nvironment. The contest asks students to submit a project that answers the questions, "What on Earth is in your stuff?" and "WHERE on Earth does it come from?" It is designed to help students understand the importance of non-renewable resources and their applications in daily life.

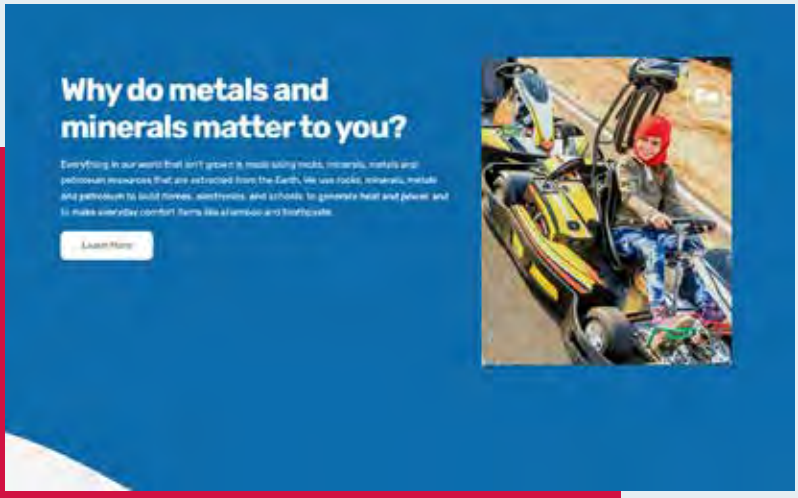
We delivered WHERE Challenge workshops to over 2,000 students. More than 200 students participated in the 2021-2022 WHERE Challenge and submitted a total of 157 projects that explored the minerals and metals used to make everyday objects. Some participants researched lithium batteries and smart phones. Others were interested in learning about the mined materials that contribute to oral care, such as toothbrushes and braces.

"The WHERE Challenge is a great way to combine what students learn in the classroom with the crucial role of mining in today's modern society," said Jeff Hanman, Senior Vice President, Sustainability and External Affairs from Teck, contest sponsor. "As we work to build a decarbonized world, mining will supply the materials needed for everything from solar panels to EV batteries and public transit infrastructure."

This year the WHERE Challenge website was refreshed (WHEREChallenge.ca).

Projects were evaluated by a volunteer panel of judges. Mining Matters thanks our judging panel for committing their valuable time and expertise in determining the 2022 winners.

A very special thank you goes out to Teck Resources Limited for providing funding for the contest and new website. We are incredibly grateful for your ongoing support.



WHERE Challenge Mini

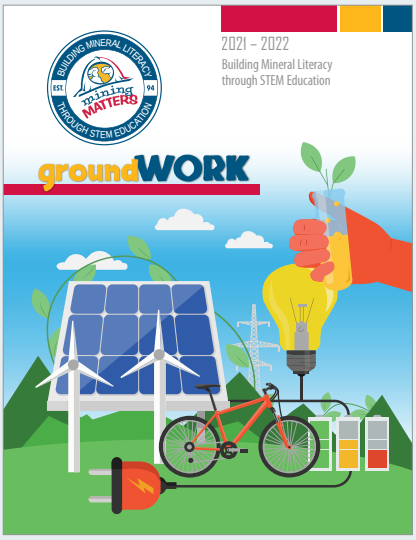
The WHERE Challenge Mini contests resumed last year. From September 2021 to June 2022, a new monthly contest gave participants a chance to win a Mining Matters Prize Pack.

Each month we announced a different contest theme that relates to the minerals and metals used in objects we use every day, such as art supplies, beach accessories, and transportation methods. Careers in the minerals industry were also emphasized throughout this contest.

groundWORK

The most recent edition of groundWORK is available on our website. It features articles on the chemical element platinum; the uses of rocks, minerals, and metals in art; the UNESCO International Geodiversity and the Willner Madge Gallery; and sustainable mining with a focus on extracting minerals from tailings and mine waste.

Designed for educators, the newsletter provides updates on Mining Matters resources, including new activities and a new poster about critical minerals. Teachers can also find information about virtual field trips. The publication includes an in-depth career spotlight.



Mineral Resources and Mining Education Tours

What better way is there to learn about the minerals industry than by seeing it first hand?

In August 2021, 20 teachers participated in the Mineral Resources and Mining Education Tours. This program – which runs up to three tours every summer – is hosted by Mining Matters, the Canadian Ecology Centre, the Ontario Mining Association, and the Canadian Institute of Mining and Metallurgy.

During the "Life in a Mining Camp" tour, a group of ten teachers received a "backstage pass" to Impala Canada's Lac des Iles Mine, located north of Thunder Bay. Participants stayed overnight two nights at the mine site, saw the underground operation, toured the mill and visited the open pit and other aspects of surface operations. Excited industry professionals shared what it's like to work in the field, providing teachers a unique lens into the industry.

The next tour brought ten more teachers to the Canadian Ecology Centre in Mattawa near North Bay. They learned the fundamentals of mineral and rock identification and about the early phases of the mine life cycle, including prospecting. Participants also visited geological sites of interest and mine service suppliers.

Both tours included a focus on the environment and sustainability as participants explored modern mining techniques. Teacher and Mining Matters Education Partner, Robert Millard, delivered a *Deeper and Deeper* classroom resource workshop. The program also shone a light on mining-related career opportunities during a presentation from Mining Matters.

Teachers left with an abundance of practical resources in hand and knowledge to use in the classroom when teaching their students about mineral resources and related topics.

In early 2022, we completed a video celebrating the 10-year anniversary of the Mineral Resources and Mining Education Tours. The video was shared over social media and features highlights from the tours and interviews with sponsors.

"We are thrilled that the mining tours have been so well-received by teachers and industry members alike," said Lesley Hymers, Manager of Education and Outreach Programs at Mining Matters. "This program equips educators with tools and information that will give them confidence when delivering the Earth science curriculum in their classroom. Teachers are provided with an overview of modern mining and the many careers available in the industry, including those where 'making a difference is key'. These important learnings can be shared with students throughout a teacher's career."

Due to ongoing concerns with COVID-19, tour capacities were kept low last year. We look forward to engaging more teachers during the upcoming Mineral Resources and Mining Education Tours.

Saskatchewan Teachers Receive Custom Workshops

Between January and May 2022, Mining Matters delivered eight custom virtual workshops for 31 teachers in Saskatchewan.

The interactive workshop explored the new *Saskatchewan Deeper and Deeper: Discovering Rocks and Minerals* teacher resource, aimed at junior grade levels. Content from the original *Deeper and Deeper* resource was customized to create a province-specific kit in consultation with Sharon Meyer, a Saskatchewan-based Elder and Indigenous education expert. Each kit contains rock and mineral samples, testing equipment, visuals, videos, books, posters, games, maps, more than 30 lesson plans and educational resources from the Saskatchewan Mining Association.

Teachers tested the physical properties of minerals, discovered how to look for clues in rocks to determine how they were formed while exploring the rock cycle, and learned about geology and mining in Saskatchewan through hands-on activities that can be reproduced in the classroom. In addition, teachers examined a map of the province and took part in an activity called Minerals and Mines in Saskatchewan: The Rock Cycle Journey and Mineral Deposits.

Participants were introduced to the Mining Inquiry resource developed by the Saskatchewan Mining Association, which weaves Indigenous ways of knowing with traditional geoscience.

"It was great to be invited and to be involved with Mining Matters to develop the Saskatchewan *Deeper and Deeper* classroom resource," said Ms. Meyer. "In the spirit of reconciliation, it was an honor to collaborate with the Mining Matters Manager of the Education and Outreach Programs. Communication and consultation were always open minded, responsive, and quick."

During the workshop, knowledge keepers provided gifted teachings. Elders, Sanford Strongarm and Nora Cumming, shared video testimonials about cultural traditions and engagement.

We received positive feedback from teachers who said that they "loved the curriculum correlations" and "hands-on component". Participating teachers especially enjoyed the Indigenous perspectives that were integrated.

"I am proud that Mining Matters reached out to foster awareness to transmit traditional language and, in this case, Cree language and culture," said Ms. Meyer. "It is meaningful that an organization such as Mining Matters is developing materials and activities for the classroom that include Indigenous perspectives. The awareness to include traditional knowledge and perspectives demonstrates the intent to honor the act of reconciliation."

The Saskatchewan *Deeper and Deeper* workshop was sponsored by the International Minerals Innovation Institute. The sessions were held in conjunction with the Saskatchewan Mining Association and Simon Fraser University Department of Earth Sciences.

Nipissing University Workshop for Pre-Service Teachers

Mining Matters was invited by the Schulich School of Education at Nipissing University to deliver a professional development workshop for their students.

The 90-minute workshop was attended by 130 teacher candidates. The session provided an overview of Mining Matters programs, emphasizing resources directed toward elementary teachers, and included a detailed breakdown of our *Deeper and Deeper* resource kit. Themes and activities in the *Deeper and Deeper* resource were highlighted.

Participants also watched a demonstration of The Physical Properties of Minerals, an interactive activity that demonstrates how to differentiate between one mineral and another through their physical features like colour and hardness. It then challenges you to identify seven different mineral samples.

While Mining Matters primarily works with practicing teachers, we were delighted to have the opportunity to support teacher candidates before they enter the classroom. Whether they end up teaching science or not, our workshops provide ideas for lessons and hands-on activities that can be applied to other subjects.

Mining Matters thanks Dr. Jeff Scott, Associate Professor in the Faculty of Education and Professional Studies, for this opportunity.

GEMS Kits Reach Thousands of Indigenous Youth

From July 2021 to June 2022, Mining Matters shipped more than 1,100 GEMS (Geology, Engineering, Mining, Sustainability) kits to communities across Canada. These kits were enjoyed by more than 3,300 Indigenous youth from Ontario, Quebec, Manitoba, Nova Scotia, Nunavut, and the Northwest Territories.

GEMS kits were first developed in 2020 when we suspended in-person programs due to COVID-19. At the time, Mining Matters was able to deliver most of our workshops online. GEMS kits were created to help ensure that our community partners who are without reliable internet access would continue to receive access to mineral resources education.

These DIY-style kits come with both written and video instructions, supplies, and rock and mineral samples so that youth have everything they need to complete the activities at their own pace. Activities including our Headframe Engineering Challenge and Minerals are the Building Blocks of Rocks teach them about geology and engineering fundamentals, and provide an introduction to the minerals industry.

"They were very useful in the way that they covered different geology, engineering and mining activities [and] using the video to go along with it was a good way for students to learn," said Lise Charbonneau, a junior high teacher at L'nu Sipuk Kina'muokuom (LSK) School in Indian Brook, Nova Scotia. She and her students did an activity that uses Play-Doh to show the different layers in the Earth's crust. "It was a great way to demonstrate how different layers are different thicknesses. Most students, including those at LSK, learn well with hands-on activities."

Select activities were translated into Cree, Oji-Cree, Ojibway, Inuktitut, and Inuinnaqtun for our Indigenous audiences.

This past year, a second edition of our GEMS kit was created and shipped to 13 Ring of Fire communities. Youth from the First Nation communities of Attawapiskat, Constance Lake, Deer Lake, Eabametoong, Fort Albany, Ginoogaming, Kashechewan, Keewaywin, Long Lake #58, Marten Falls, Neskantaga, Sandy Lake, and Webequie took part in 13 new activities that built upon their knowledge of rocks and minerals. In Mystery Mineral, they discovered the physical properties of minerals and learned how to test a sample to determine its identity. Participants could also enjoy fun craft activities, like Making with Metals, in which they use embossing tools to draw patterns and images on aluminum or copper foil.

A third version of our GEMS kit is currently under development with the support of the Ontario Ministry of Mines.

Thank you to our partners and sponsors for your support in making Earth science activities accessible to youth in remote locations:

- Alamos Gold
- Atlantic Geoscience Society
- Frontier College
- Glencore
- Government of Canada
- Government of the Northwest Territories
- Kivalliq Science Educators Community
- Mining Association of Nova Scotia
- Nuna Logistics
- Ontario Ministry of Mines
- Province of Nova Scotia - Geoscience & Mines Branch
- Teck Resources Limited

Outland Youth Employment Program 2021

Mining Matters continued to partner with the Outland Youth Employment Program (OYEP). OYEP offers a national network of land-based education, training and work opportunities for high school-aged Indigenous youth. The program has provided hundreds of Indigenous youth with income and learning opportunities over the past two decades. Mining Matters provided activity materials for 25 Rangers at each of their six camp locations in Alberta, British Columbia, Manitoba, and Ontario.

The activities were delivered over the course of three days by OYEP facilitators during their six-week summer program, which ran during July and August 2021. Rangers gained foundational knowledge in Earth science and mineral resources through a variety of activities that focus on geoscience, engineering, the environment, and sustainability. Participants also completed activities from the Guiding Circles resource, which helped them reflect on their hobbies, interests, and skills as a way to start thinking about and exploring career options.

This is the second year that Mining Matters adapted in-person program delivery by providing OYEP staff with educational resources and training to enable delivery of Mining Matters activities to their participants. We produced video tutorials that demonstrate how to complete different challenges and provided all the materials needed to do the activities.

We are grateful to our partners at OYEP for their continued collaboration in reaching more youth with Earth science education.

Indspire Conference Inspires New Ideas for Mining Matters

The 2021 Indspire conference took place online and was attended by over 1,200 participants looking to gain new ideas for integrating Indigenous perspectives into their teaching practices.

Mining Matters was pleased to exhibit again this year, sharing educational materials as well as participating in valuable professional development workshops. Our booth attracted 228 unique visitors and we received over 1,800 document views. Documents, including the Mining Matters Activity Book, posters, and our 2021 educator newsletter groundWORK, were uploaded to our virtual booth for attendees to collect.

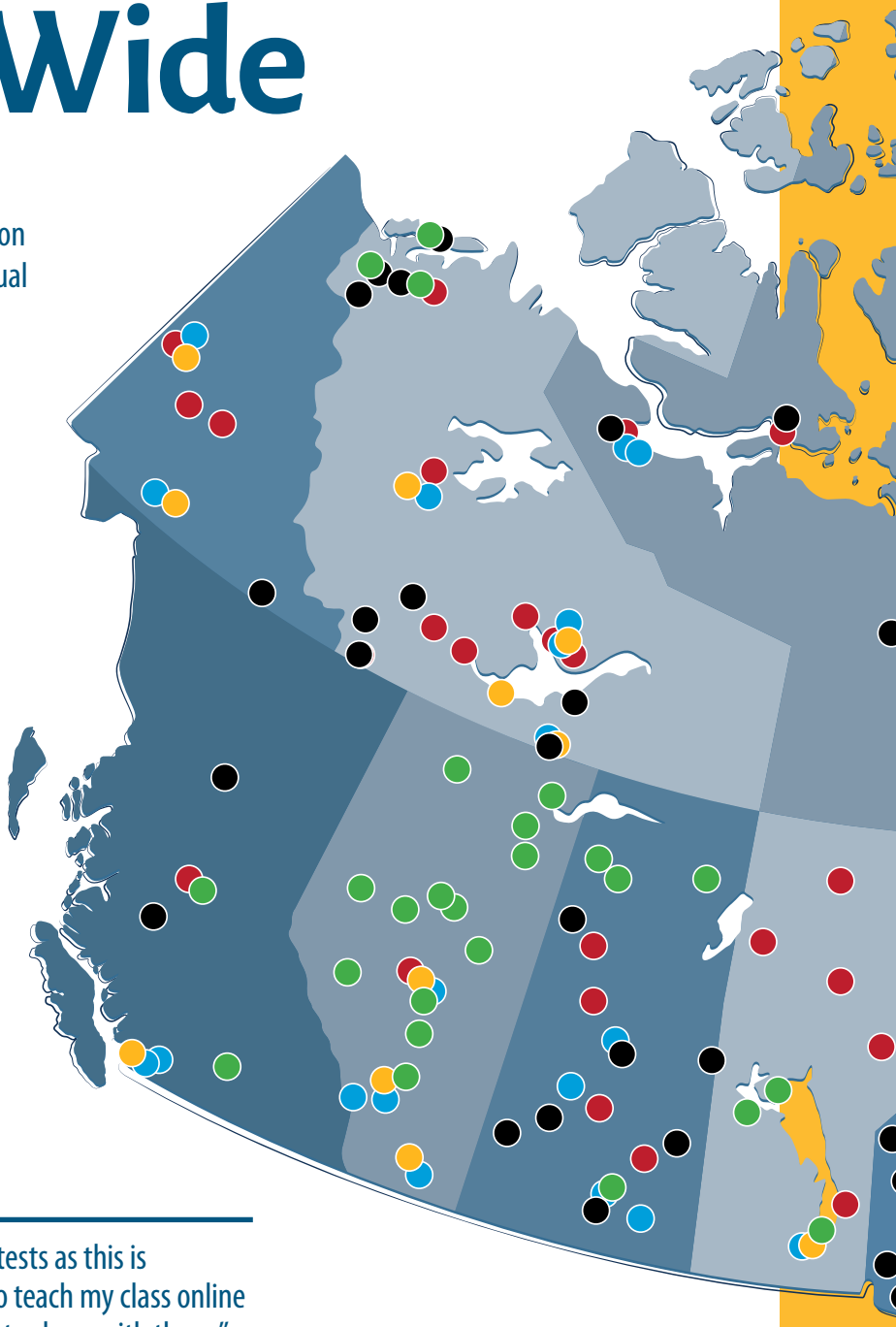
The event kicked off with a keynote from playwright, journalist, and filmmaker, Drew Hayden Taylor, and celebrated leaders for their innovative teaching practices. Our staff enjoyed hearing from Indigenous artists and creators and building our knowledge about Indigenous culture and pedagogies.

Our attendance at the conference provides important opportunities for professional development and strengthens connections to community and education partners. It also gives us the opportunity to learn from Indigenous education experts to improve our own content and think about the needs of potential partners. In the past we have modified our activities so that our Indigenous participants could better relate to the material. This year, we translated some aspects of our GEMS kits sent to Nunavut into Inuktitut.

Mining Matters Far and Wide

Showcasing our reach across Canada, in-person and virtually, over the past six years. Our virtual programs commenced in 2020.

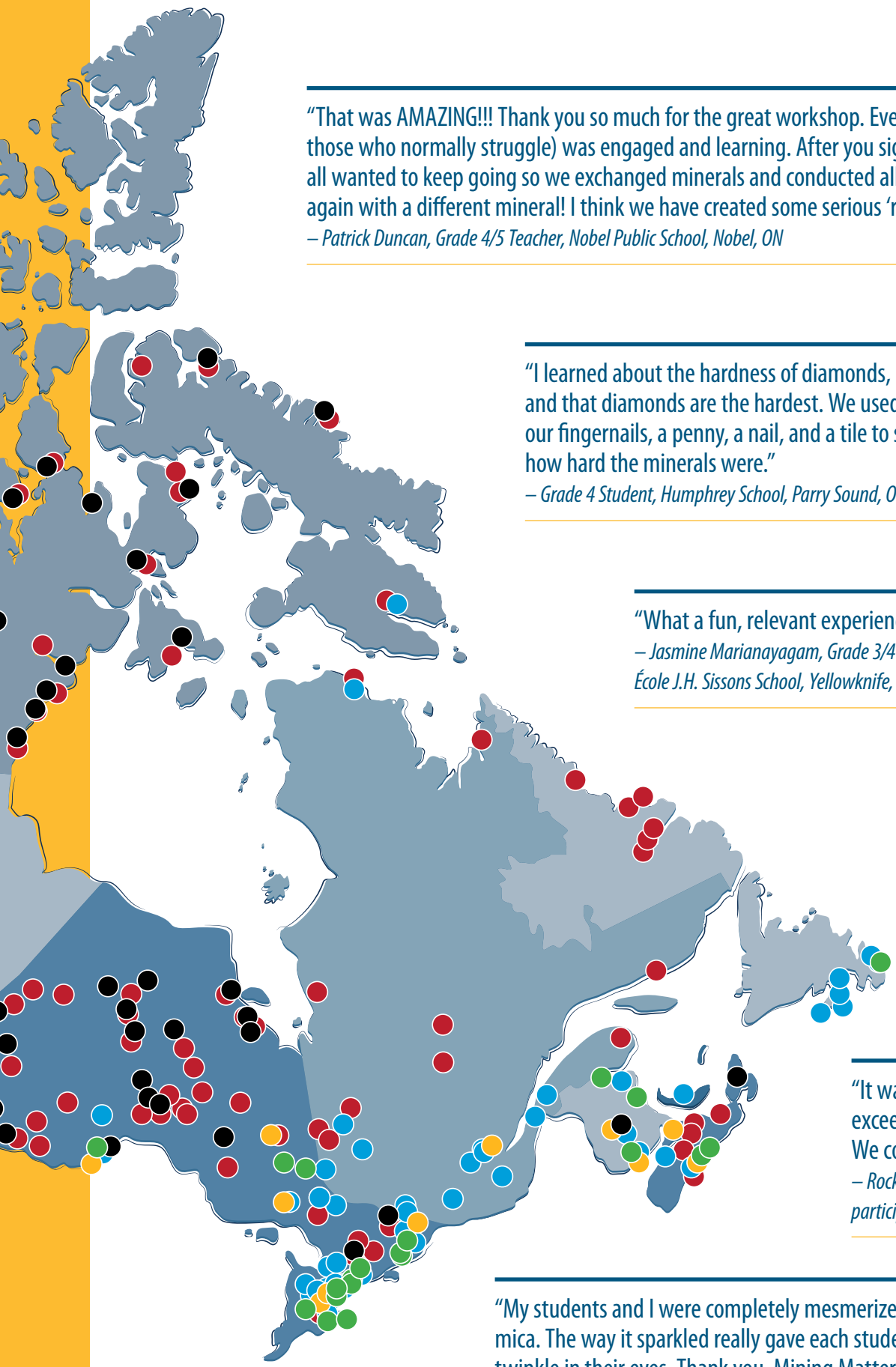
- Teacher Training and School Programs
- Indigenous Communities Education and Outreach Programs
- Outreach Programs
- Partnership Programs
- Virtual Programs



"I learned a lot about the differences between rocks and minerals, and now, whenever I look at a rock or a mineral, I will know which one it is."
– Grade 4 Student, North Bay, ON

"I liked the different mineral tests as this is something I was struggling to teach my class online without having the materials to share with them."
– Teacher, Rocks + Kids = Opportunities participant

"I just wanted to say thank you so much on behalf of our school. The kits are amazing and the students will be really excited once they can start using them. We were blown away at how well put together these kits are and the fact that they are available in French is wonderful."
– Rae-Lynn Brook, Teacher, École Communautaire Saint-Georges, St-Georges, MB



"That was AMAZING!!! Thank you so much for the great workshop. Everyone (even those who normally struggle) was engaged and learning. After you signed off, they all wanted to keep going so we exchanged minerals and conducted all of the tests again with a different mineral! I think we have created some serious 'rockhounds'!"
– Patrick Duncan, Grade 4/5 Teacher, Nobel Public School, Nobel, ON

"I learned about the hardness of diamonds, and that diamonds are the hardest. We used our fingernails, a penny, a nail, and a tile to see how hard the minerals were."
– Grade 4 Student, Humphrey School, Parry Sound, ON

"What a fun, relevant experience for the students!!"
– Jasmine Marianayagam, Grade 3/4 French Immersion teacher, École J.H. Sissons School, Yellowknife, NT

"Our instructor, Kasey, was excellent. She was engaging and knew the content well."
– Teacher, North Bay, ON

"It was awesome. It exceeded my expectations. We covered a ton of content."
– Rocks + Kids = Opportunities participant

"My students and I were completely mesmerized by the mica. The way it sparkled really gave each student that twinkle in their eyes. Thank you, Mining Matters, for creating such a superb experience for my students."
– Reid Duns, Teacher, Québec City, QC

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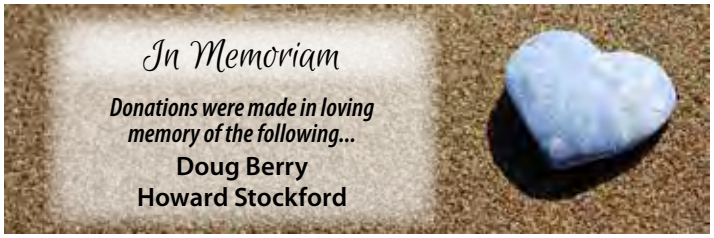

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Youth Program in Île-à-la-Crosse, SK

Mining Matters and Courtney Onstad, PhD candidate from Simon Fraser University, delivered a multi-day in-person program in Île-à-la-Crosse, a Métis village in Saskatchewan. The program was made possible with financial support from the International Minerals Innovation Institute and extensive collaboration with the Saskatchewan Mining Association.

Twenty-six students from Rossignol High School participated in the program, which introduced students to the geology and mining industry in Saskatchewan, integrating career content and focusing on different aspects of the mineral resource development cycle. Participating students were among the first to take part in our *Robotics Rocks!* workshop in-person, which was very well-received by youth and teachers. Students also tested water samples – their results were uploaded to Water Rangers, a citizen science initiative with an online database that collects and preserves water monitoring data.

Indigenous perspectives were integrated into the program through a new activity developed by Ms. Onstad. Uniting Perspectives asked students to pick a landform, research the western science and Indigenous perspectives surrounding it, and then create a piece of art, a video, or write a report to represent both views.

An outreach event was held for over 40 community members. Student volunteers, alongside Mining Matters staff, delivered activities to attendees, allowing youth the opportunity to share what they had learned in the classroom. Students showed participants how to make necklaces out of amethyst and copper wire, taught them about the physical properties of minerals, and provided a glimpse of some of the numerous minerals that we use daily through Product Matching.

"This program presented an incredible opportunity to evaluate geoscience communication in an informal educational setting," shared Ms. Onstad. "By understanding how students engage with lecture-oriented, hands-on, and participatory activities, we can craft purposeful and captivating lessons for future programming."

Mining Matters would like to thank the teachers, students, and administration of Rossignol High School, as well as the members of the Île-à-la-Crosse community for making our first multi-day in-person program in two years a great success.

Teacher Training in Nunavik

We first collaborated with Glencore's Raglan Mine team back in 2018 to deliver programs for Indigenous youth during their Environmental Forum. We facilitated Earth science activities and hosted outreach events in Salluit and Kangiqsujuaq, two of the fourteen villages located in Nunavik (the northern third part of Quebec).

We worked with Raglan Mine again last year to deliver an online professional development workshop for five teachers and the principal of a school in Kangiqsujuaq.

They explored the *Deeper and Deeper: Discovering Rocks and Minerals* resource kit, trying several of the activities and gaining practical ideas for how to deliver these lessons in the classroom. Participants learned how to use the kit and delved deeper into the activities: The Scientific Testing of Minerals, Making Sense of Igneous Rocks, Making Sense of Sedimentary Rocks, and Making Sense of Metamorphic Rocks.

If you are interested in learning more about this teacher resource, our *Deeper and Deeper* video tutorials are available on our website and can be viewed by creating a free login. The videos provide instructions for some of the more popular activities in the kit.

Canada-Wide Science Fair

We love seeing young people passionate about STEM. What's more, we enjoy showing them connections between STEM and the minerals industry.

At the 2022 Canada-Wide Science Fair, our staff delivered a webinar that introduced students to the vast array of career opportunities in the minerals industry. We focused on different jobs in each of the STEM disciplines and highlighted a few post-secondary programs available in Canada that could lead students to these careers. Participants also learned about the Mining Matters co-op opportunity, which employs students enrolled in a co-operative education program related to Earth science and provides unique opportunities to teach youth about geology, travel to remote locations, and network with industry members.

Mining Matters shared educational resources and activities with thousands of students who participated in the event. A virtual scavenger hunt was organized to help guide attendees to our booth.

Thank you to CIBC for supporting our participation in this event. We look forward to connecting with bright young minds again next year.

GAC-MAC Conference

Mining Matters exhibited at two GAC-MAC conferences last year.

The fall event took place at Western University in London, ON. We partnered with the university's Department of Earth Sciences, the APGO Education Foundation, the Canadian Geoscience Education Network, and EdGEO to Co-Chair a Geoscience Education Symposium. The event included 14 in-person and virtual speakers from around Canada and a presentation from Mining Matters about our transition to virtual delivery during the pandemic.

Together, we delivered a professional development workshop for educators and a virtual field trip that focused on the well-preserved fossils such as crinoids, brachiopods, corals and trilobites, found near Arkona, approximately 50 km west of London. The workshop connected foundational and applied Earth science knowledge to elementary and secondary curricula, with a focus on the United Nations Sustainable Development Goals. Participants received a resource kit, lesson plans, and materials to deliver the following activities in the classroom: Scientific Testing of Minerals, Mines and Microbiomes, and Product Matching.

"I love all of the hands-on activities and resources. There were so many awesome pedagogical resources, activity bags, and even a textbook. Thank you! Very useful as a new teacher," said a workshop participant.

In the spring, we travelled to Halifax, NS for the 2022 conference where we debuted two of our new activities about critical minerals. Twenty-seven educators from Nova Scotia and New Brunswick participated in the workshop and provided a technical review of the activities. Mining Matters also co-chaired an Earth Science Education Symposium at this conference.

Across both events, we reached over 150 people through workshops and presentations.

Mining Matters is a regular contributor to GAC-MAC conferences.

Earth Day Career Panel

The Ottawa Network for Education invited Mining Matters to participate in a virtual Earth Day Career Panel directed toward high school teachers and students. Ten teachers and 246 high school students attended the event.

Hosted by the Ottawa Catholic School Board, the panel included five science professionals from a range of backgrounds, education and career paths, including Nicholas Allen, Aquatic Ecologist at AECOM; Lauren Castellino, Co-Executive Director at Regenesis; Faith Edem, Public Policy Analyst at Environment and Climate Change Canada; Tonio Sadik, Senior Director at Environment, Lands and Water Branch – Assembly of First Nations; and Lesley Hymers, Manager, Education and Outreach Programs at Mining Matters.

The purpose of the career panel was to showcase a range of science careers that "make a difference to the Earth" and to provide a forum for panelists to raise awareness of their fields and share the details of their career stories.

PDAC Convention and Silent Auction

Our staff returned to the Metro Toronto Convention Centre last June for the 90th Annual PDAC Convention. The South Building was abuzz with excitement as people reunited after two years.

Over at the Mining Matters booth, attendees swarmed around the silent auction tables and played their hand at our trivia wheel. Participants were tested on their knowledge about critical minerals, geology, and the environment for a chance to win a prize. Our staff reconnected with familiar faces, networked with attendees, and participated in technical sessions.

Thanks to everyone's support during our silent auction, we successfully raised more than $8,500 for mineral resources education. We look forward to seeing you again in March 2023.

Science Rendezvous

We collaborated with the APGO Education Foundation (APGOEF) at Science Rendezvous this past May in Kingston, ON. We were thrilled that our exhibit was voted a People's Choice favourite.

Together, we promoted a greater understanding of geoscience to 976 attendees. The exhibit included a display of local rock samples that tied in nicely with geological displays at the Miller Museum. A geology-themed scavenger hunt where participants could earn a digital "Geo-Explorer Badge" of Kingston was also offered as part of the event.

We are thankful to our friends and partners at the APGOEF for their support and collaboration. We would also like to thank NSERC for their support of our participation in this event.

Yukon Mining Week

Mining Matters was pleased to support the annual Yukon Mining Week events that took place last May in Whitehorse. We provided copies of the What is a Mine? Colouring Book and the Mining Matters Activity Book, as well as geodes that were distributed throughout the week. In addition, the week featured a Yukon specific WHERE Challenge for students and we contributed a GEMS kit as a prize.

The event was coordinated by Yukon Women in Mining and the week included their Exploration & Discovery Camp, a mock exploration camp that is set up with various educational and hands-on activities for local students and youth.

Partnership with Let's Talk Science

One of the pillars of our organization is STEM partnerships. We are always looking to expand our reach and encourage more people to think about Earth science and the careers in the minerals industry. That's why we were excited to work with Let's Talk Science to develop a series of geoscience career profiles.

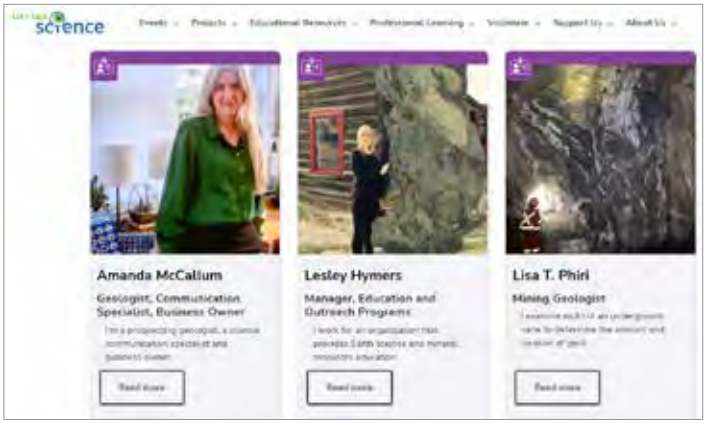
Let's Talk Science is a Canadian charity that helps youth develop skills they need for future success through STEM education. The organization provides programs and resources for educators to help engage students in learning about science, technology, engineering, and math as they recognize that there is an increasing demand for qualified individuals to fill jobs that require these subjects.

We were asked to help Let's Talk Science expand their collection of STEM career profiles featured on their website by adding geoscience-related careers. Showcasing real people in real jobs, each profile illustrates a different STEM career. Students can read about the vast array of opportunities available to them while learning about how working in these roles impacts people's lives.

Each career profile features an "About Me" section, describes the person's job, lists the subjects they enjoyed in high school, and what motivates them. They also share some fun facts about themselves.

The new jobs we added are more specific to the minerals industry. We sought out and selected professionals who represent a range of experiences, including a geologist, a policy manager, and even a business owner. These profiles can be viewed in the database.

The Career Exploration collection features over 500 career profiles for youth to browse through. These profiles are designed to inspire students and help them choose a job they will love.



Science Literacy Week 2021

From September 20 to 26, 2021, Mining Matters participated in Science Literacy Week, a nationwide celebration of science that encourages kids and families to explore the diversity of science in Canada and how it shapes their everyday lives.

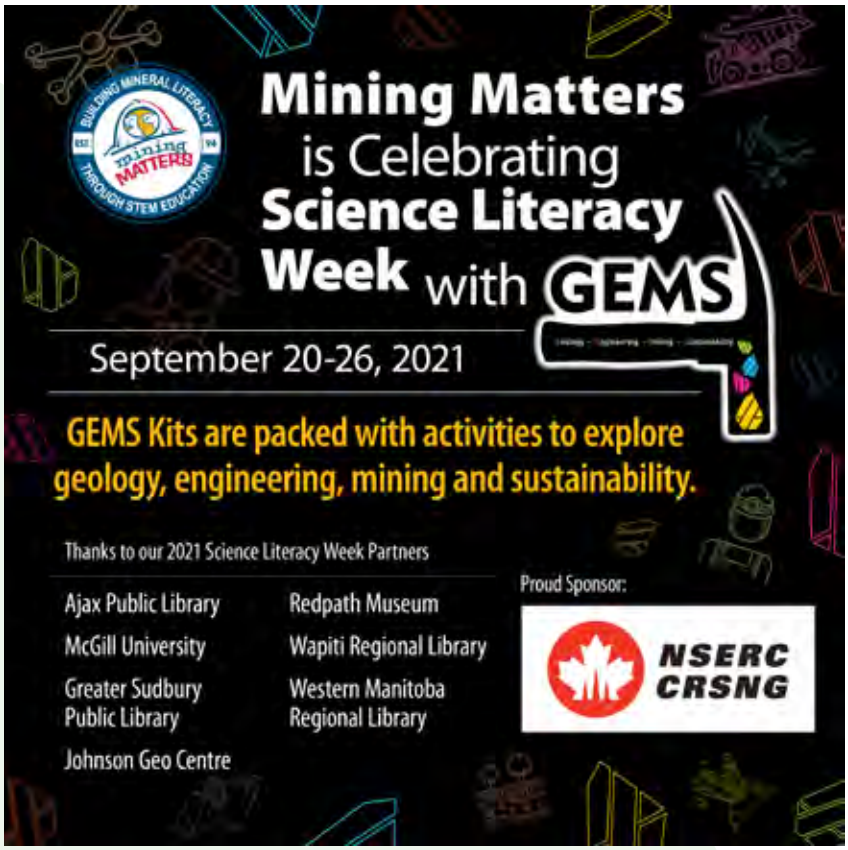
We distributed 138 GEMS kits to seven libraries across Canada. Youth in Manitoba, Newfoundland, Ontario, Quebec, and Saskatchewan learned about geology, engineering, mining, and sustainability through fun hands-on activities.

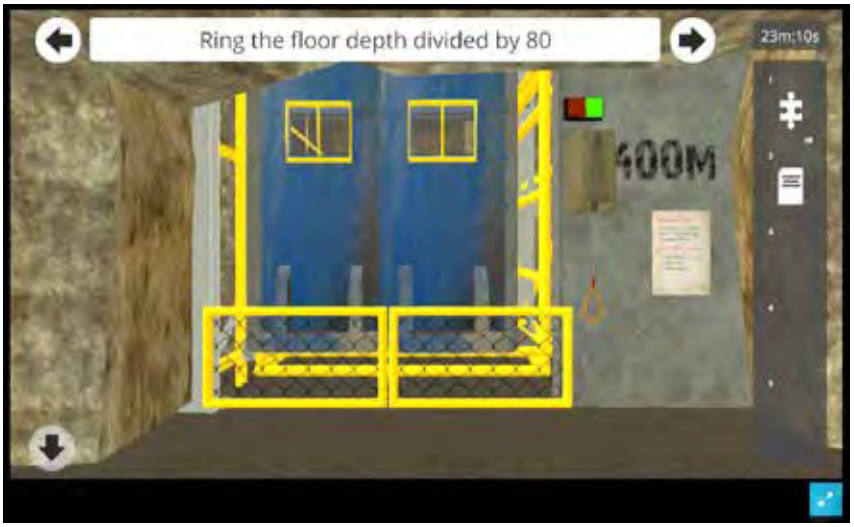
Each kit came with eight activities and included the materials and instructions needed to complete each one. Youth could learn about the Earth's internal structure, build a water filter, look at the differences between rocks and minerals, and more! Since the week emphasizes the impact that science has on people's lives, our GEMS kit also included a matching activity to illustrate the ways in which minerals and metals are used in common household items, such as carpet, utensils, and floor tiles.

The kits were "flying out the doors" of the Greater Sudbury Public Library who commented on our Instagram. "Thank you, Mining Matters! Your GEMS kits were a hit with patrons @gsplibrary," they wrote.

Mining Matters has contributed to Science Literacy Week celebrations since 2017. This was our second year providing GEMS kits to partner libraries in lieu of in-person workshops.

Thank you to the Natural Sciences and Engineering Research Council of Canada (NSERC) for sponsoring our participation in this important event.





The Mine: Virtual Escape Experience

If you managed to escape *Refuge Station*, you will want to check out *The Mine: Virtual Escape Experience*. This is the second escape room from Mining Matters and continues from where *Refuge Station* left off.

We partnered with a Capstone team from Ontario Tech University to create a prototype for *The Mine*.

The challenges in *The Mine* are heightened by the lack of visibility at the start of the game. Players find themselves in a dark corridor of a mine with only their headlamp for light. In order to escape, they must uncover items and find clues. As players go about the escape room, they will learn about the periodic table, seismic waves, and the connections between minerals and everyday objects. The puzzles are more complex than they were in *Refuge Station* and make for an exciting and challenging experience.

"Working with Mining Matters has been a great experience for all of us," reflects the Capstone team. "We hope that future Capstone teams can get similar opportunities to learn and grow as we have. This collaboration not only helped improve the team's skills, but also made us feel more confident in our talents for tackling real-world challenges going forward. We thank Mining Matters for not only giving us this work opportunity, but for [trusting] us to deliver an end-product that meets their excellent standards."

SenseTech, a game development company, was engaged to provide their expertise and help us refine and bring the prototype to the finish line.

Mining Matters is grateful to Ontario Tech University and SenseTech for their creative ideas and dedication during this collaboration. We would also like to thank Teck Resources Limited for sponsoring both escape room experiences.

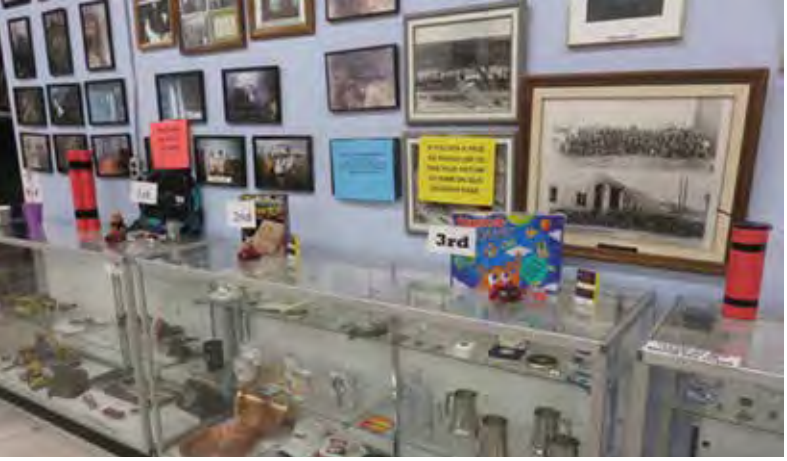
We are pleased to share this latest adventure with everyone. Stay tuned for part three!

Young Toronto Mineralogists Club

Last winter, Mining Matters was invited by the Young Toronto Mineralogists Club (YTMC) to deliver a guest workshop.

Thirty-three young rockhounds participated in discussions about fluorescent minerals and watched a demonstration. Using an adapted USB microscope, they observed the optical properties of thin sections with plane and cross polarized light.

Thank you to CIBC, Proud Sponsor of STEM Partnerships, for their support of this program.



Rock Doctor Day in Snow Lake, MB

For the seventh year in a row, Mining Matters donated activities and resources to Snow Lake Mining Museum's annual Rock Doctor Day event. The 2021 event was attended by 75 visitors, including 31 children. They could win prizes, see the Rock Doctor, and pick up Mining Matters materials.

Gift bags from Mining Matters included the What is a Mine? Colouring Book, the Mining Matters Activity Book, and a rock cycle poster. These materials teach youth about rocks, minerals, mining, and their relevance to our daily lives.

"We were thrilled to receive this contribution from Mining Matters as we have every year since 2015," said curator Dori Forsyth. "Rock Doctor Day is meant to teach kids about geology and mining and resources like the ones Mining Matters provides help enhance the event."

Bill Salahub Jr. (Doctor Bill) headed up the event and identified samples brought in by kids of all ages. In addition, every child who attended was able to visit Treasure Island where they could guess various minerals and mining items to win prizes.

Industry Professionals in the Classroom

Mining industry professionals frequently volunteer as guest speakers to educate young minds and share their love of what they do. Many individuals working in the industry feel they have an important responsibility to raise public awareness of the significance of mining in daily life.

Presentations delivered by industry experts enhance the classroom experience. But to deliver a memorable presentation that motivates and inspires students, industry professionals often need visual and hands-on materials for an effective, enthusiastic delivery that will stimulate curiosity and foster a positive attitude towards the industry.

Industry professionals from SLR, Agnico Eagle Mines and Impala Canada asked Mining Matters to help plan for their classroom visit. We were able to provide samples of rocks and minerals and their uses, supplies for Cookie Mining, suggest presentation outlines appropriate for the grade level, and give tips for discussing their own experiences.

"I worked with Mining Matters last year as part of my son's grade 3 career program where parents shared about their careers. As a geologist, I was thrilled to take part. Mining Matters offered tons of great hands-on activities to complement the session that were super cool and age based. The kids LOVED it and now all want to be geologists 😊."
-Valerie Wilson, Principal Geologist, SLR Consulting

Mining Matters Co-op Program and Mitacs Internship

Mining Matters is proud to offer opportunities for students and recent graduates looking to gain experience and build their careers in the minerals industry. In 2021-2022, we welcomed three new members to our team. They helped deliver Mining Matters programming while developing their skills in leadership, teamwork, problem solving, public speaking and networking.

Vivian He, McMaster University, BSc, Earth and Environmental Science
Co-op Student, Winter 2022

"In the Bilingual STEM Communicator position, I had the opportunity to design and deliver imaginative and science-based programming in both English and French for students across the country. Even though I was nervous and apprehensive about teaching kids in French at first, I found the classroom atmosphere to be very welcoming and I was able to get a good amount of French practice during workshop delivery.

"I also was able to build upon many other skills during my tenure at Mining Matters that will be very beneficial to all my future endeavors. For example, I have gained a great deal of independence during my work term. Presenters are responsible for every aspect of workshop delivery - from the initial communication with the teachers to the invoicing process at the end. At school, it is rare for professors to allow this degree of flexibility and freedom. I loved the opportunity to be creative and come up with my own lesson plans and slideshow presentations. As the term went on, I developed more and more confidence in my own judgment and decisions."

Vivian's Review
Teacher, Algonquin Avenue School

"The grade four class had the opportunity today to be geologists in training, thanks to a workshop from Mining Matters! The focus of the workshop was on minerals as part of our current science unit. Students tested their mystery mineral, recorded their observations and identified their sample by its physical properties. After their investigations, they were able to identify their sample as amethyst! We then followed the same process to identify a sample of chalcopyrite. Thanks to our awesome instructor Vivian for a wonderful learning experience today!"

Courtney Onstad, Mitacs Intern, PhD Student at Simon Fraser University

"Working with Mining Matters has been an incredible opportunity to contribute to increasing scientific literacy in Canada. The skills I gained during my internship have allowed me to approach my Ph.D. research considering the values of science outreach organizations. During my time with Mining Matters, I was offered diverse opportunities, including program design, travelling for community-engaged youth workshops, and delivering teacher professional development workshops. As someone who values science communication, it isn't easy to describe how much this opportunity meant to me. I felt valued for my research experience and knowledge while simultaneously encouraged to learn from the wealth of practitioner experience the Mining Matters team brings. In times of misinformation and negative perceptions of mining, mineral literacy must be a priority in the education system, and Mining Matters plays a pivotal role in its advancement."

Hastings Saunders, University of Waterloo, Geography and Environmental Management
Co-op Student, Summer 2022

"I greatly enjoyed my time at Mining Matters, having learned a lot, both about mining, and about outreach and education. Travelling and meeting new people was also a very enjoyable experience, and I hope to do more work like this in the future. I also learned that the mining industry is far more high-tech, welcoming, and diverse than most people think, and I'm glad that Mining Matters is working to make this known to the wider public."

For more information about Mining Matters employment opportunities, please visit:
miningmatters.ca/about-us/join-our-team

Patricia Dillon Speaks about Mineral Resources Education

Mining Matters President, Patricia Dillon, was the 2021-2022 CIM Honorary Distinguished Lecturer from the Canadian Mining Hall of Fame.

Over the last year, Ms. Dillon presented to the Mining Society of Nova Scotia, CIM Branches in Vancouver, Calgary and New Brunswick, as well as to faculty and graduate students at the Robert M. Buchan Department of Mining at Queen's University. Through her talks, she reached approximately 450 attendees.

Her presentation explored the importance of supporting communities with mineral resources education to provide enrichment and improve knowledge and understanding of our industry.

"Educating young people about the Earth sciences, mineral resources, the contributions that mining makes to our standard of living, and potential career opportunities is critical for developing understanding and broad support for the industry," explained Ms. Dillon. "It creates opportunities to build awareness, dispel myths and misconceptions, and demonstrate the industry's importance and value."

By providing balanced and accurate educational resources, engaging programs, and exhibiting at public outreach events, we can build mineral literacy, lead others to a better understanding of the mining industry, spark interest in STEM, and bring awareness to career opportunities. In her

presentation, Ms. Dillon also highlights many organizations that are strongly committed to providing accurate information and programs to educate teachers, students and the public on the value of minerals and mining to our society and the industry's commitment to corporate social responsibility.

"I was very honoured to be the 2021-2022 Canadian Mining Hall of Fame CIM Distinguished Lecturer. I wish to thank the CIM Foundation for their generous support of the Distinguished Lecturers series since 1972."

The Distinguished Lecturers program is offered to all CIM Branches, Technical Societies and Student Chapters. Universities can also request a lecture. For more information, contact: Dist_lecturer@cim.org


Lesley Hymers, M.Sc.

Women Geoscientists in Canada's "Leading Lady" Blog

Our very own Lesley Hymers was featured as the June 2022 "Leading Lady" for Women in Geoscientists in Canada's (WGC) "Leading Lady" blog. She was interviewed about her role as the Manager, Education and Outreach Programs. Ms. Hymers goes into detail about the different steps she took in her career that led her to where she is today as well as what she might have done differently.

The monthly post features interviews with women geoscientists in the industry. They share personal stories about how they ended up in the field, how their jobs have evolved, and what diversity and inclusion mean to them.

Each "Lady" also shares a piece of advice for young women starting a career in geoscience.

The website states that the blog is "designed to showcase a side of the industry that we usually don't see and aims to inspire others to stay in the industry. By seeing others like ourselves, we want to generate a sense of belonging in our industry while we work to set that diverse image as the new standard in geoscience."

WGC is a national organization whose mission is to promote and advocate for gender diversity within the geosciences. You can read about each of the Leading Ladies on their website.

Giving Tuesday

On November 30, 2021, we participated in Giving Tuesday, a global movement for giving and volunteering.

Our campaign highlighted various new initiatives, such as GEMS kits and virtual student workshops, and informed potential donors about how their contribution would make an impact.

Thanks to everyone who donated, we raised $2,000 for mineral resources education. We are extremely grateful for your generosity.

Facebook: @MiningMattersCA
Instagram: @miningmatters
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How to Donate

Mining Matters is grateful for the contributions of many loyal supporters who have made our goals a reality. Your donation makes a difference! It provides the foundation for our important work and is critical to our ongoing vision of bringing Earth science to life.

As a charitable organization, Mining Matters is able to develop and deliver its programs due to generous financial sponsorship, donations and in-kind contributions from the mineral and aggregate industries, individuals, foundations, corporations and governments.

We invite new supporters to join our cause and current supporters to continue so that we may carry on providing current information about the importance of rocks, minerals, metals and mining in everyday life, and about the diverse career opportunities available in the minerals industry to students, educators and the public.

A charitable receipt will be issued for contributions of $25 and greater. For more information or to donate, please contact mfraser@miningmatters.ca

Donating Cash

Cash donations to Mining Matters are always welcome and are eligible for the Charitable Donation Tax Credit (CDTC). In addition, for individuals who have not donated previously to charities, there is the First Time Donor's Super Credit (FDSC). This applies to cash donations, not contributing shares. There are also provincial tax credits, which vary across the provinces. Donate online today at MiningMatters.ca.

Donating Shares

Donating shares to Mining Matters may be of interest due to the considerable tax benefits that can be realized. The elimination of capital gains on stocks, bonds and mutual funds means that a contribution results in a tax receipt equal to the fair market value of your gift. Rather than being subject to tax on 50 per cent of the gains for shares sold during your lifetime, accrued capital gains on donated shares are exempt from taxes.

To learn more, please contact Durham Sims, Mining Matters Investment Advisor at RBC Dominion Securities at 416-842-3086, 800-561-4468 or durham.sims@rbc.com. Mr. Sims serves in a volunteer capacity with Mining Matters.

Planned Giving

Mining Matters accepts planned gifts. These gifts enable individuals to make larger donations than they could make from traditional methods.

- Bequests and Wills: leave a piece of property, securities, cash or percentage of your estate.
- Charitable Remainder Trust: irrevocably make a gift through a trust agreement.
- Endowment Fund: provides long-term support. The principal remains invested; only the income is spent.
- Life Insurance: designate Mining Matters as the beneficiary on a new or existing policy or transfer the ownership of your policy to Mining Matters directly with a pledge to pay the premiums each year.
- RRSPs/RRIFs: name Mining Matters as the direct beneficiary of your RRSP/RRIF assets.
- Securities: donate bonds, mutual funds, stocks or other types of securities.

When considering a Planned Gift, Mining Matters recommends that you contact your professional advisor so that your legacy gift is tailored to your circumstances.

Who We Are

Mining Matters is a national charitable organization dedicated to educating young people to develop knowledge and awareness of Earth sciences, the minerals industry and their roles in society. We provide current information about rocks, minerals, metals, mining and the diverse career opportunities available in the minerals industry. Mining Matters offers exceptional educational resources that meet provincial curriculum expectations, created by educators and Earth science experts.

Mining Matters has reached an estimated 825,000 teachers, students and members of the public since inception in 1994.

Our core educational programs are:

Teacher Training and School Programs
Bringing Earth science to life for students and teachers in classrooms and online across Canada

Indigenous Communities Education and Outreach Programs
Opening a world of opportunities to youth in Indigenous communities

Outreach Programs
Developing an awareness of the mining industry and sparking interest in Earth science learning in people of all ages

Partnership Programs
Building partnerships with museums, schools, STEM organizations, and industry professionals to reach people in all regions of the country

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