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Welcome Back to School!

Welcome back to a new school year! We hope that you enjoyed your summer break while managing to stay cool and safe. As we step into the fall season, **MineralsEd** is excited to share our latest updates. Our teacher resource units have been refined, and our inventory of rocks and minerals have been replenished. Get ready to once again engage in our in-person workshops!

The 2023 - 2024 school year brings a lineup of exciting programming. We're absolutely delighted to share the exciting news that **MineralsEd** is heading north to **Smithers, BC** for the Provincial Pro-D Day in October! We're equally thrilled to provide educators with the unique opportunity to explore the historic **Bear Mountain Gold Mine**. Furthermore, we are pleased to bring back the crowd-favorite Natural Resources Harbour Cruise.

Join us in welcoming **Nayanika Sukumar**, our new Program Coordinator. We also extend our best wishes to **Sarah Jackson-Brown**, who is now on maternity leave.

Explore this Fall edition of **MineralsEd Connections** to learn more and prepare for the year ahead. Don't forget to stay in the loop by signing up for our **Newsletter** for monthly e-updates!

Junior Geologist Workshop

We are proud to announce that **MineralsEd** is reintroducing our in-person Junior Geologist program, rekindling the joy of hands-on learning and exploration. We will be maintaining our virtual options so that we can provide learning opportunities to classrooms all across BC and Canada!

In-Person Junior Geologist Workshop (3-Hours)

In this engaging and exploratory half-day workshop, students will be introduced to the rock cycle and learn how the physical properties of rocks tell how they formed. They will learn about rocks and minerals as non-renewable natural resources, and how the properties of rocks and minerals determine how they are used. All materials and tools required are provided by the presenter.

BOOK NOW - EARLY BIRD SPECIAL
FROM NOW UNTIL SEPTEMBER 30, 2023 BOOK OUR VIRTUAL/
IN-PERSON JUNIOR GEOLOGIST WORKSHOP AND GET **25% OFF!**
<https://bit.ly/junior-geo>

By Teachers, For Teachers

MineralsEd Fall Pro-D Day Field Trips: October 20, 2023

MineralsEd is pleased to offer an array of in-person workshops and field trips for for the **Provincial Pro-D Day** on **Friday, October 20, 2023** (page 2-3).

Natural Resources in Vancouver Harbour Cruise - Downtown Vancouver

Join MineralsEd and members of the *North Shore Waterfront Industrial Association (NSWIA)* for a boat tour of **Vancouver Harbour** to learn about Canada's natural resources and their role in the Canadian and Global economies. Home to **29 major terminals**, the **Port of Vancouver** is able to handle the most diversified range of cargo: mineral concentrates, sulphur by-product, potash, wood products, grains and coal produced in BC and other parts of Canada are exported in bulk to markets around the world. As the country's gateway to over 170 trading economies, the port handles approximately **\$305 billion in goods**. They provide the world with raw materials and drive our economy. This half-day cruise will loop around Burrard Inlet for a close look at many of the terminal operations. Terminal representatives will be on board to share their knowledge and expertise about their operation and the natural resources they handle. Register before **September 30th** to get the **Early Bird Discount!**

Registration (Early Bird: \$45 | Regular: \$75):
<https://bit.ly/ME-HC-Oct2023>



Bear Mountain Gold Mine - Harrison Hot Springs

Join MineralsEd in an exciting collaboration with *Bear Mountain Mines* and *Douglas College* for an exclusive Pro-D field trip of the Bear Mountain Gold Mine operation near **Harrison Hot Springs**. Uncover the rich history of this **former high grade gold mine**, once known as the RN Mine, where local prospectors first unearthed its potential in the late 1970s. Step into the current phase of this mine's journey where intensive exploration of gold deposits seek to better assess the mine's potential. This visit will include an overview of the history of gold prospecting in the region, an **underground mine tour** and the opportunity to view core samples up close! This exceptional opportunity offers an unprecedented educational tour, tailored for BC educators. Teachers will gain an overview of the gold rush's significance in British Columbia's development and learn the intricacies of exploration work and mine development. This tour is limited to **20 participants**. Register before **September 30th** to get the **Early Bird Discount!**

Registration (Early Bird: \$25 | Regular: \$40):
<https://bit.ly/BearMtnGold-Oct23>



EARLY INDIGENOUS PEOPLE'S USE OF ROCKS AND MINERALS

MineralsEd is excited to bring back this workshop for the Fall October Pro-D! This unit is composed of six stations that explore different methods of how early indigenous people utilized rock and minerals. Practice flaking your own stone tools, painting with mineral pigments and soap carving! **Location: Port Coquitlam**

Registration (\$50): <https://bit.ly/EIRUM-Oct23>

MineralsEd Fall Pro-D Day Events: October 20, 2023

After an eagerly awaited span of almost a decade, **MineralsEd** is thrilled to announce our upcoming presence up north, in **Smithers, BC** for the Provincial Pro-D Day on October 20, 2023. This marks an incredible opportunity for us to connect with the northern communities and provide important minerals, mining, and earth science resources to local teachers!

Each workshop includes a teacher's binder with background information and classroom activities, support materials (USB, posters, activity books, bookmarks, and more), and rock and mineral samples. You can browse both the MineralsEd workshops here: <https://bit.ly/MEResourceUnits>

Intermediate Integrated Resource Unit on Mining

This Resource Unit is written with a thematic approach to mining and Earth Science, designed for the grade 4 - 6 curriculum and integrating cross-curricular learning. The **MineralsEd's Rock Star 101** presentation will introduce participants to **mining and geology in B.C, rocks and minerals**, and the **rock cycle**. Teachers will have the opportunity to get hands-on by exploring their **MineralsEd Rocks and Minerals Kit** and practicing their rock identification. Afterward, participants will review lesson plans and activities, whose topics range from: the **history and future of mining, mining and the environment, uses of rocks and minerals, mining careers**, and more!

Presented by **MineralsEd** Partner-Teachers Andi Eisler and Derrick Midwinter.

Registration (\$50): <https://bit.ly/Intermediate-Smithers-Oct23>

Earth Science Resource Unit

This Resource Unit provides a collection of engaging and instructive activities and demonstrations to help introduce the **fundamentals of geology, plate tectonics**, and **history of the Earth** through creative learning activities. Units in the binder address essential topics like **rocks and minerals**, the **rock cycle**, **structure of the Earth**, **volcanoes and earthquakes**, plus unique topics like **famous rocks** and **BC geology**. Teachers will be treated to various demonstrations and get hands-on with their **MineralsEd Rocks and Minerals Kit**, enabling immediate classroom integration. This comprehensive unit can be applied to both intermediate and secondary grade levels.

Presented by **MineralsEd** Partner-Teacher Kerry Lockwood

Registration(\$50): <https://bit.ly/EarthSci-Smithers-Oct23>

MINERALSED TRAVEL SUBSIDIES FOR SMITHERS' WORKSHOPS

MineralsEd is delighted to offer travel subsidies to educators from school districts out the Town of Smithers - **Bulkley Valley** (SD 54), **Nechako Lakes** (SD 91), and **Coast Mountains** (SD 82) for our October Pro-D workshops. Travel subsidies of up to \$50 are available to assist in covering travel expenses.

The application must be received before you arrive at the workshop. MineralsEd will send an email confirmation with the subsidy amount. You must contact MineralsEd after you have completed your workshop. A cheque equivalent to the approved subsidy amount will be mailed directly to your school. We eagerly await the chance to support your professional development through our October Pro-D workshops. Safe travels, and we look forward to having you join us!

Apply Now: <https://bit.ly/METravelSubsidy>

Guest Speakers: Geoscientist in the Classroom

Ignite curiosity in your classroom with a direct link to real-world geoscience expertise! Register for our **FREE MineralsEd** classroom session where passionate volunteer geoscientists virtually or in-person engage students on a range of topics: Rocks and Minerals, the Rock Cycle, Mining, Geology of BC, Layers of the Earth, Plate Tectonics, Earthquakes/Landslides, Volcanoes, Fossils, Careers and more!

Tailored to grades K-12, these 20 - 60 minute sessions fit seamlessly into class schedules, providing an interactive journey through Earth Science, perfect for Science, Social Studies, and Career Education. Book now to spark inspiration and gain first hand knowledge from the experts!

Book Now: <https://bit.ly/geoscience-classroom>



REVAMPED IN-CLASS WORKSHOP - BALANCING PERSPECTIVES: ETHICAL CONSIDERATIONS IN BC MINING

Discover mining from every angle! Explore the intricacies of mining with our updated workshop tailored for secondary grade levels. Merging Social Studies, Geography, Earth Science, and Geology. This engaging workshop covers **the mining process, sustainability and reclamation, economics, and Indigenous perspectives**. The heart of the workshop revolves around a classroom case study of a fictional proposed mine. Here, students assess the environmental, cultural and ethical aspects, simulating stakeholders' roles. Lead by **MineralsEd** Partner-Teacher Bruce Kiloh.

Register Now (\$50): <https://bit.ly/ME-MiBC>

FREE MineralsEd Resources

Visit the **MineralsEd** website to view all the free resources available!

- Order a **FREE MineralsEd Sample Pack** with posters, activity books, bookmarks, and more!
- Request one of our free online quizzes for your classroom: **Junior Geologist Quiz**, or **Rocks and Dirt Video & Quiz**.
- Explore mineral exploration and mining throughout the province by visiting the **MineralsEd** interactive **B.C. Mines Map** or try out our **Virtual Mining Scavenger Hunts**.
- View our **YouTube** channel for a collection of our geoscience videos.



Looking for something else? Try searching our **Virtual Library** with hundreds of resources for your Earth Science units.

We have resources for all things geoscience: Rocks and Minerals, the Rock Cycle, Mining, Geology of B.C., Environmental Science, Climate Change, Layers of the Earth, Plate Tectonics, Earthquakes, Volcanoes, Mars, Fossils, Careers, and more!