

To enhance trades and technology awareness as education and career pathways in students Grades 8-12.



TRADES AND TECHNOLOGY EXPLORATION

December 12, 2019 // 10:00 am - 2:30 pm
Saskatchewan Polytechnic Campus

Lunch will be provided.

HOSTED BY GIRLS IN THE CLASSROOM, this educational outreach event brings together Saskatchewan Polytechnic's WITT (Women in Trades and Technology) and Mining Engineering Technology programs, among others, including mining and minerals industry alumni.



Saskatoon Public Schools
Inspiring Learning



MentorSTEP



SASKATCHEWAN
POLYTECHNIC



UNIVERSITY OF
SASKATCHEWAN

Learn More About our Program: www.girlsintheclasse.org

TRADES AND TECHNOLOGY EXPLORATION

DECEMBER 12, 2019 // SASKATCHEWAN POLYTECHNIC CAMPUS



ITINERARY

10:00 am // Davies Building Auditorium (stone building next door to the main campus)

- Students & teachers seated according to assigned Group number
- Introduction to the day
- Blessing from Elder Rick Daniels

10:30 am // Follow Campus Leader to First Assigned Station:

Group 1: Station A - Trades Tour & Activities (Main campus building)

Group 2: Station B - Technology Tour & Activities (Main campus building)

Group 3: Station C - Mining Engineering Tech Tour & Activities (Mining Engineering Technology Building)

10:45 am // First Station Activities Begin

11:45 am // Lunch Provided at Each Group's Current Location

12:15 pm // Follow Campus Leader to Second Assigned Station

12:30 pm // Second Station Activities Begin

1:15 pm // Follow Campus Leader to Third Assigned Station

2:15 pm // Program Wrap-up & Dismissal to Buses

STATION A

TRADES TOUR & ACTIVITIES (Main Campus Building)

Program Heads and alumni from industry discuss the trades and conduct hands-on activities

- Industrial Mechanics and other trades shops tour

STATION B

TECHNOLOGY TOUR & ACTIVITIES (Main Campus Building)

Program Heads and alumni from industry discuss technology programs and conduct hands-on activities:

- CAD-CAM
- Mechanical Engineering Technology
- Electronics Systems Engineering Technology

STATION C

MINING ENGINEERING TECH TOUR & ACTIVITIES (Mining Engineering Technology Building)

Program Head and alumni from industry discuss mining engineering technology and conduct hands-on activities:

- Activity 1 – AR (augmented reality) Sandbox
- Activity 2 – AutoCAD Demo & 3D printing



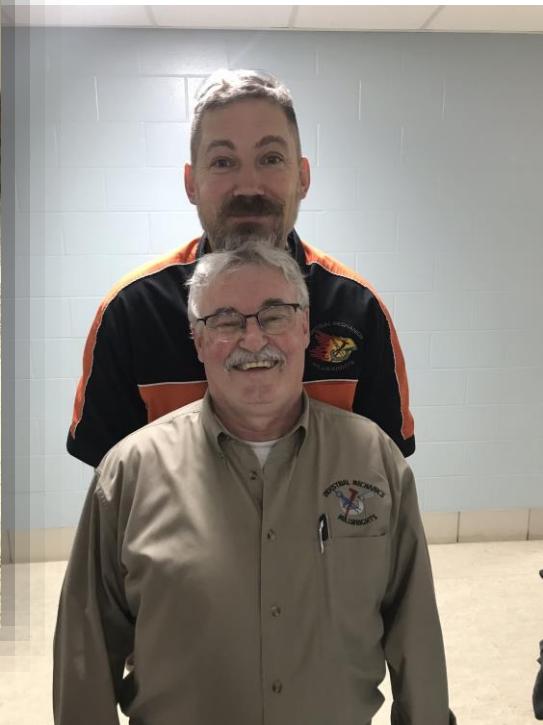
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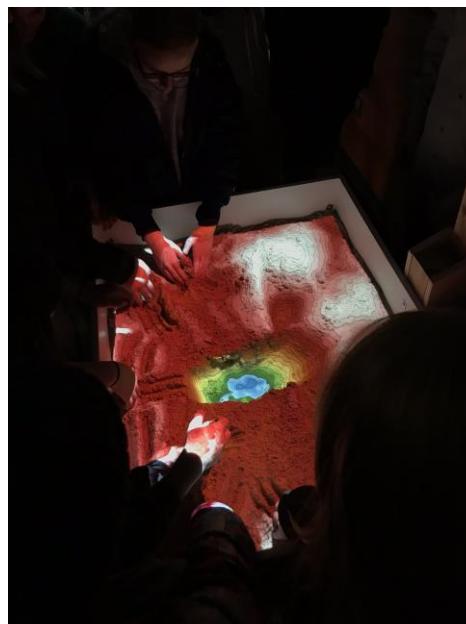
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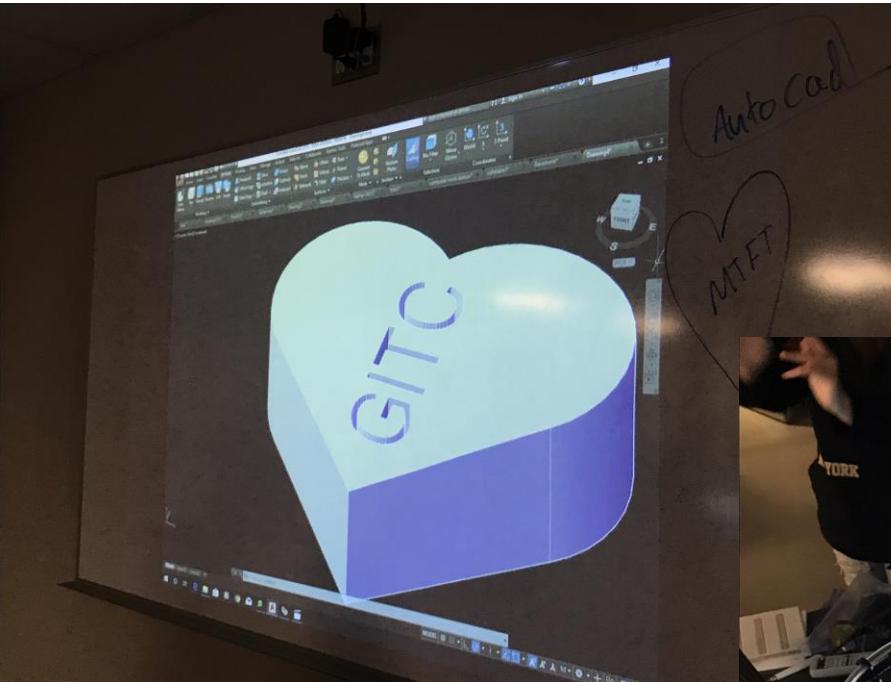


UNIVERSITY OF
SASKATCHEWAN









GIRLS IN THE CLASSROOM

UNLEASHED CAREER OPPORTUNITIES IN MANUFACTURING

What was your favorite thing that you did/saw at this station?

Everything was amazing!

What did you learn at this station?

I learned you can 3D print with metal.

Would you consider a career using the skills that you learned about at this station?

Yes, this career path is very interesting.

What was your favorite thing that you did/saw at this station?

My favorite thing was seeing the tanks and this lab.

What did you learn at this station?

I learned that mechanics are important in this world.

Would you consider a career using the skills that you learned about at this station?

This opened my mind more and hope I get this career in the future!

GIRLS IN THE CLASSROOM
UNLEASHING CAREER OPPORTUNITIES IN MATH

What was your favorite thing that you did/saw at this station?

The Big Machine that mines

What did you learn at this station?

That there they're their is a whole process to extract

Would you consider a career using the skills that you learned about at this station?

yes

What was your favorite thing that you did/saw at this station?

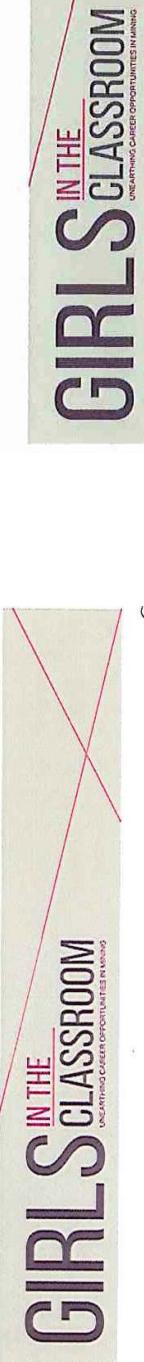
Definitely the real-time topography map.

What did you learn at this station?

Visual representation of GIS mapping

Would you consider a career using the skills that you learned about at this station?

Sure, my degree relates to GIS and mapping.



What was your favorite thing that you did/saw at this station?

The Robot that can build.

What did you learn at this station?

You can blend material to your preference

Would you consider a career using the skills that you learned about at this station?

Yeah

What was your favorite thing that you did/saw at this station?

That they can do 3D that was pretty cool
how they made a car with hockey sticks

What did you learn at this station?

That no matter what you do wrong
you can make things right.

Would you consider a career using the skills that you learned about at this station?

YES I would do this is basically
how I can learn I can immediate.

GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES IN MANUFACTURING

What was your favorite thing that you did/saw at this station?

The most favourable element of this station was the tour around the shop.

What did you learn at this station?

I learned that there is a big opportunity in trades, career wise.

Would you consider a career using the skills that you learned about at this station?

Yes I would. Due to the expanding options and advancements, I think a career on this path would be a good idea.

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GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES IN MANUFACTURING

What was your favorite thing that you did/saw at this station?

Looking at the different machines/robots was pretty cool, seeing how they work was also pretty nice

What did you learn at this station?

Learned how they separate or sort the materials they have

Would you consider a career using the skills that you learned about at this station?

Maybe I would try it out more & see how I like it.

What was your favorite thing that you did/saw at this station?

The printers. And what can be made.

What did you learn at this station?

This is the same program that built a car
and went to competition

Would you consider a career using the skills that you learned about at this station?

I might look more into it.
It seems very interesting and I think I can do well.

What was your favorite thing that you did/saw at this station?

Being able to see the different colours
when you move the sand

What did you learn at this station?

How to program and make stuff for a
3D printer.

Would you consider a career using the skills that you learned about at this station?

I would cause it looks really fun and exciting.

GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES FOR GIRLS

What was your favorite thing that you did/saw at this station?

My favorite thing that I saw at this station was the pac-a-mole game. I also really enjoyed the 3D printing room.

What did you learn at this station?

I learned a lot about the different 3D printers & how they are used for different processes.

Would you consider a career using the skills that you learned about at this station?

I think I would like to consider these skills that I learned today because I really like building, designing & making things.

GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES FOR GIRLS

What was your favorite thing that you did/saw at this station?

Looking at the 3d printing of the parts were pretty cool

What did you learn at this station?

Learned that you can cut with water pressure

Would you consider a career using the skills that you learned about at this station?

Maybe, seems interesting

GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES IN MINEING

What was your favorite thing that you did/saw at this station?

-The tank and the ~~jet~~ conveyor because it was very interesting

What did you learn at this station?

-There are lots of different ~~jobs~~ things to do at the mine

Would you consider a career using the skills that you learned about at this station?

May be at the surface but not under the mine

What was your favorite thing that you did/saw at this station?

Sand

What did you learn at this station?

~~Yes~~ You could print 3D things

Would you consider a career using the skills that you learned about at this station?

Yes

GIRLS IN THE CLASSROOM

USA TODAY CAREER OPPORTUNITIES IN MINING

What was your favorite thing that you did/saw at this station?

i liked the robots

What did you learn at this station?

i learned that ~~you~~ you can
make anything

Would you consider a career using the skills that you learned about at this station?

yes i would like to

What was your favorite thing that you did/saw at this station?

the jobs that girls/others can get in mines
and how we play an important role

What did you learn at this station?

different types of minerals we use and
have in sask

Would you consider a career using the skills that you learned about at this station?

yes

GIRLS IN THE CLASSROOM
UNLEASHING CAREER OPPORTUNITIES IN MINING

What was your favorite thing that you did/saw at this station?

the big tanks of water

What did you learn at this station?

that there is 3 stages you have to go to after you're done going underground.

Would you consider a career using the skills that you learned about at this station?

yes

What was your favorite thing that you did/saw at this station?

my fav part was when we walked & get to look at ~~the~~ the machines.

What did you learn at this station?

You could use potash as fertilizer.

Would you consider a career using the skills that you learned about at this station?

yes.

GIRLS IN THE CLASSROOM

LEARN ABOUT CAREER OPPORTUNITIES IN NANO

What was your favorite thing that you did/saw at this station?

My favorite thing about this station was when I got to make a mountain out of sand and it showed me the heat levels in it.

What did you learn at this station?

Where heat stays and where it gets stuck.

Would you consider a career using the skills that you learned about at this station?

Yes, I would. I really loved working with this. =) (I am more into meteorology -

What was your favorite thing that you did/saw at this station?

My favorite thing was the 3D printer and how just with power of water you can crab anything and the ~~pack-a-mole~~ thing to.

What did you learn at this station?

I learned that if you put your mind to it you can do anything and that every thing with technology starts with this program and it's just really cool the things you can do.

Would you consider a career using the skills that you learned about at this station?

I would because I like build on things and I like designing and building things.

GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES FOR GIRLS

What was your favorite thing that you did/saw at this station?

the underground mine and the workers using machines

What did you learn at this station?

that anybody can work in a mine.
potash is shipped around the world and used as fertilizer

Would you consider a career using the skills that you learned about at this station?

yes working in trades seems like a very hands on learning job. that would be super fun :)

GIRLS IN THE CLASSROOM

UNLEASHING CAREER OPPORTUNITIES FOR GIRLS

What was your favorite thing that you did/saw at this station?

My favourite thing I saw ~~was~~ was the 3D printer and how it worked.

What did you learn at this station?

I learned ^{how} little machines can make such amazing things. ~~and everything in~~ I learned about manufacturing engineering.

Would you consider a career using the skills that you learned about at this station?

Yes

GIRLS IN THE
CLASSROOM

ONE PATH TO CAREER OPPORTUNITIES IN MATH

What was your favorite thing that you did/saw at this station?

The button pressing game

What did you learn at this station?

Every code/project is not perfect

Would you consider a career using the skills that you learned about at this station?

Honestly yes I love creating different things