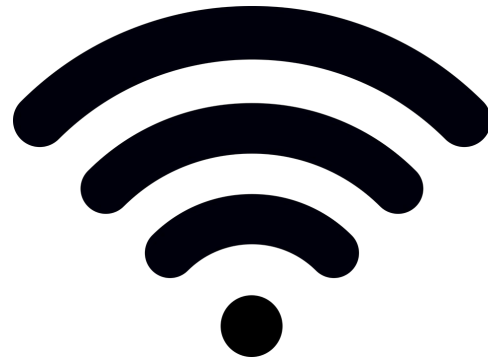


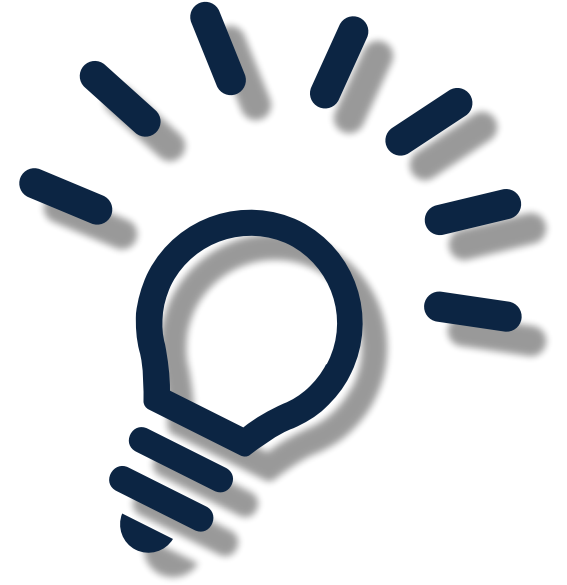
Northland School Division

Leveraging Technology: Removing Barriers to Create Opportunities for Collaboration and Growth



Our story.....

What does Northland School Division have in common with both Arizona and Italy?

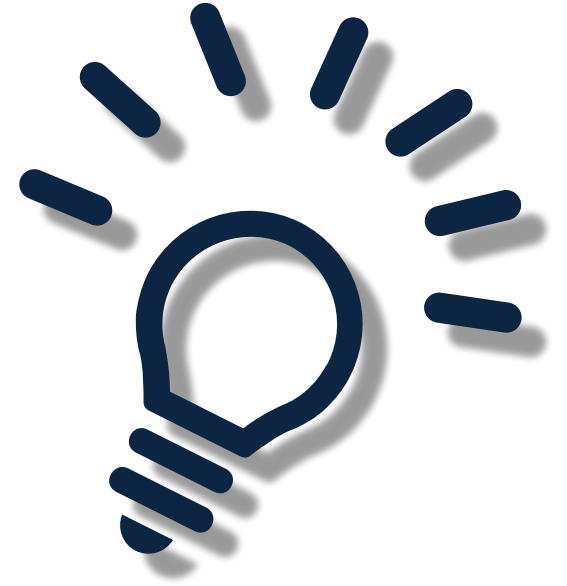


**Northland School Division covers
approximately the same amount of
physical space as both Arizona and Italy.**

Italy: 301,340 Km

Arizona: 295,254 Km

NSD: 288,347 Km



The Northland School Division Map



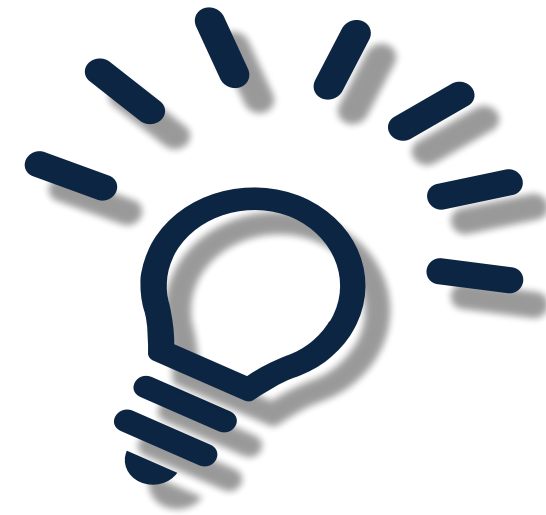




Where we were in 2018...



- **Extensive travel time/PL**
- **Challenges accessing presenters**
- **Obstacles preventing collaboration between schools**
- **Extensive windshield time for central office staff**
- **Distance between teachers led to working in isolation**
- **Limited access to outside resources and partnerships**
- **Significant funds spent on travel/accommodations**
- **Weather and road conditions a factor in planning**





How can we remove the distance and time barriers to bring people together to collaborate and connect?

What we noticed...



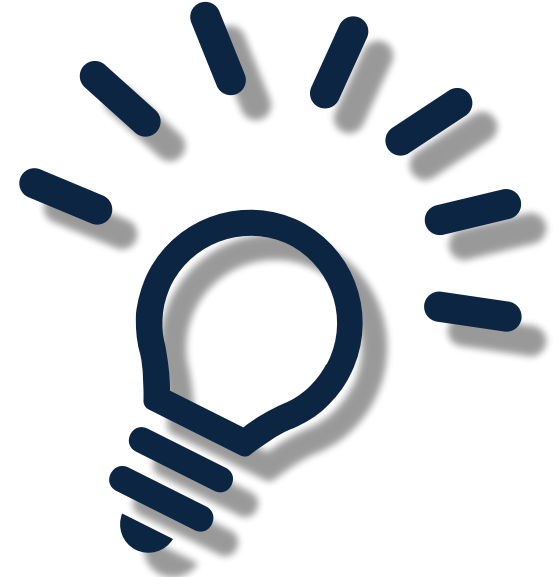
- **Using technology for collaboration was a challenge**
- **Limited capacity for technology use in classrooms**
- **Technology used as an add-on rather than to support and elevate learning**
- **Teachers wanted more opportunities to collaborate**
- **Teachers wanted support for technology integration**
- **Teachers wanted to learn how to better engage students with/through technology**





How can we build the capacity of our teachers to use technology for engaging our students in deeper and richer learning?

Two focus areas...



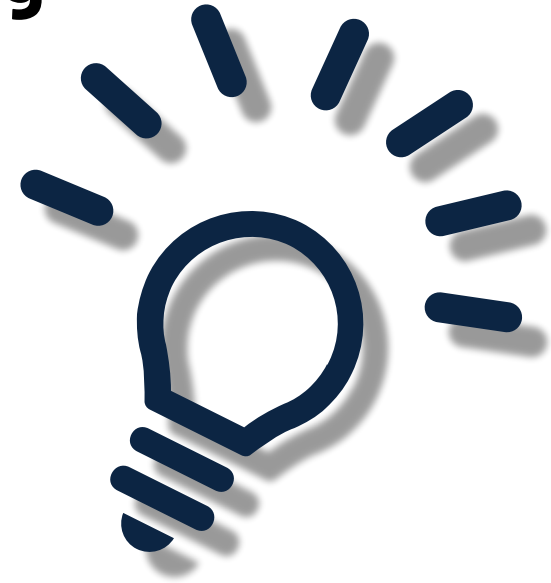
- 1. Leverage technology to improve communication and collaboration and to reduce distance and time barriers.**
- 2. Leverage technology to engage students and enhance teaching and learning.**



Strategies for focus area 1:



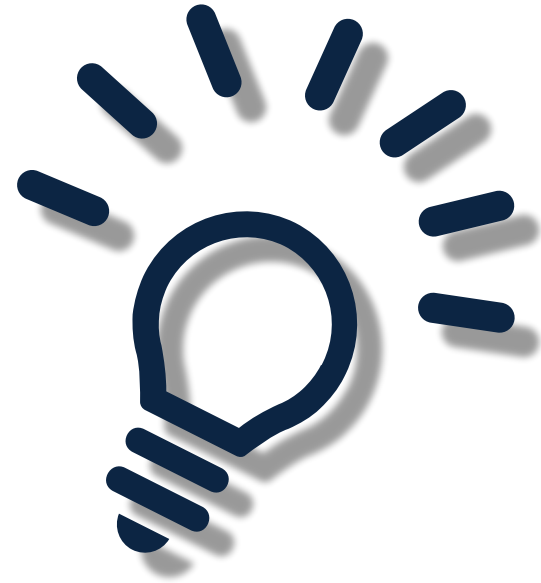
- **Changing Culture and Beliefs**
- **Doing Things Differently**
- **Focusing on Relationships**
- **Creating a sense of community**
- **Creating Spaces and Opportunities for Collaboration**
- **Facilitating Grade Level Connections and Networking**
- **Investing in Technology**



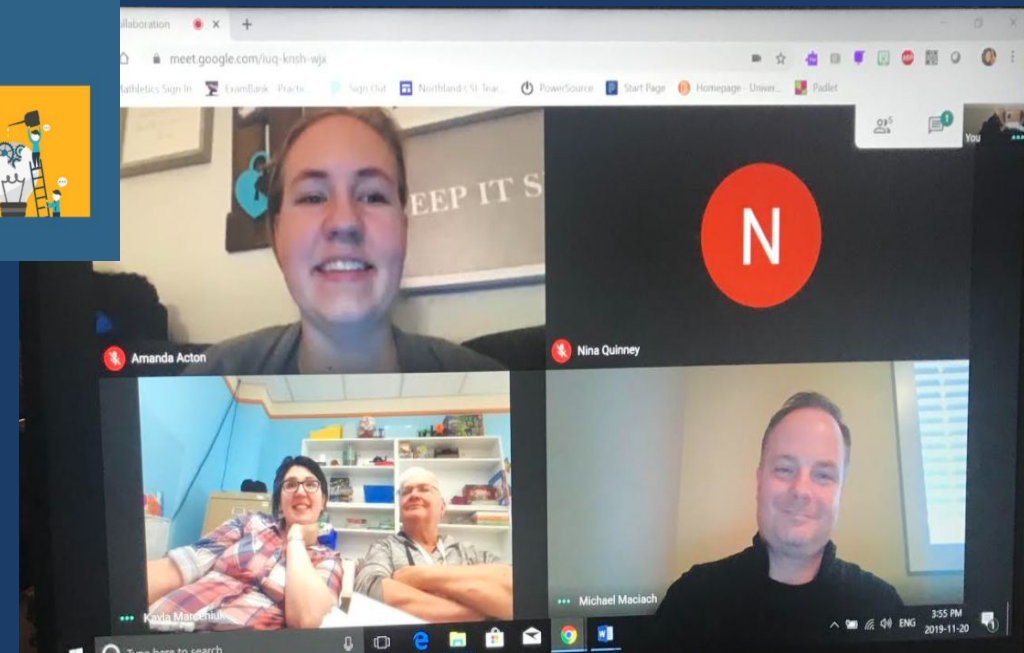
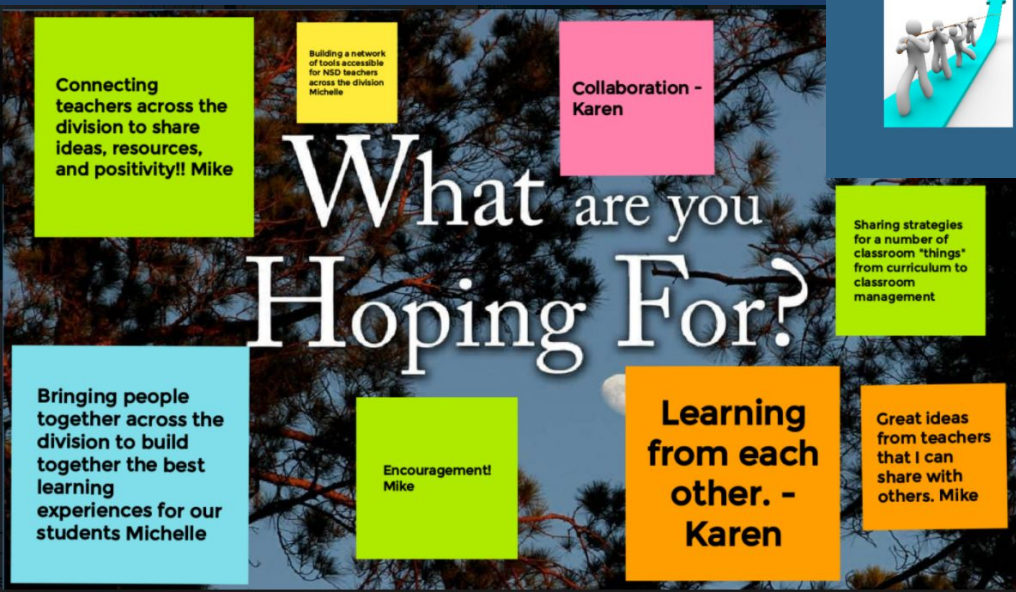
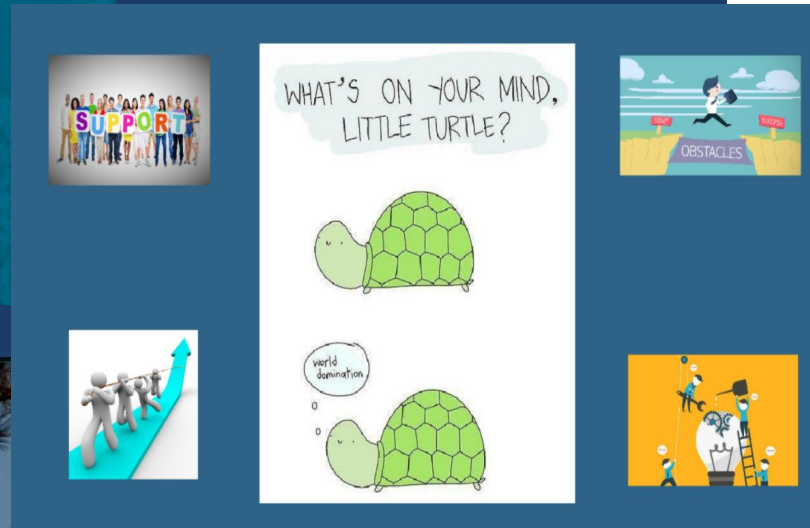
Changing Culture and Beliefs, Doing Things Differently, and Focusing on Relationships



- **Alternatives to face to face meetings**
- **Becoming comfortable with the technology**
- **Facilitating collaboration in an online environment**
- **Building connections across the division**
- **Working collectively regardless of distance**
- **Relational trust whether online or face to face**



Grade Level Networking



Investing in Technology



OWL Labs



▶ Screenshotify

Hapara

FieldTrip
Zoom
the world in every classroom



Strategies for focus area 2:



- **Changing Culture and Beliefs**
- **Building Capacity Within**
- **Teacher Technology Leader Cohorts**
- **Division Wide Technology Professional Learning**
- **Professional Learning Online Portal**
- **Partnering for Teacher Technology Skill Development**
- **Engaging Students with Technology and Through Technology**




Teacher Technology Leader Cohort

Zoom : <https://zoom.us/j/147480880>
Slides: bit.ly/2TW5Ci3

NSD
Technology
Teacher Leader
Cohort: Intro

(March 17, 2020, 3:30 – 4:30pm)



The image is a promotional graphic for the NSD Technology Teacher Leader Cohort: Intro session. It features a background of bare tree branches with colorful circles and icons (lightbulb, puzzle piece, thumbs up) overlaid. A large teal circle contains the title. A red banner at the top left provides Zoom and slide links. The Edmonton Regional Learning Consortium logo is in the bottom left. A vertical strip of five small video call windows on the right shows participants.

Zoom : <https://zoom.us/j/147480880>
Slides: bit.ly/nsd0527

NSD Technology
Teacher Leader Cohort:
Leadership

(May 27, 2020, 3:30 – 4:30pm)



The image is a promotional graphic for the NSD Technology Teacher Leader Cohort: Leadership session. It features a background of bare tree branches with colorful circles and icons (lightbulb, puzzle piece, thumbs up) overlaid. A large teal circle contains the title. A red banner at the top left provides Zoom and slide links. The Edmonton Regional Learning Consortium logo is in the bottom left.

Zoom : <https://zoom.us/j/147480880>
Slides: bit.ly/nsd0401

NSD Technology
Teacher Leader Cohort:
**Learning Online,
Digital Citizenship &
Leaders**

(April 1, 2020, 9:00 – 12:00pm)

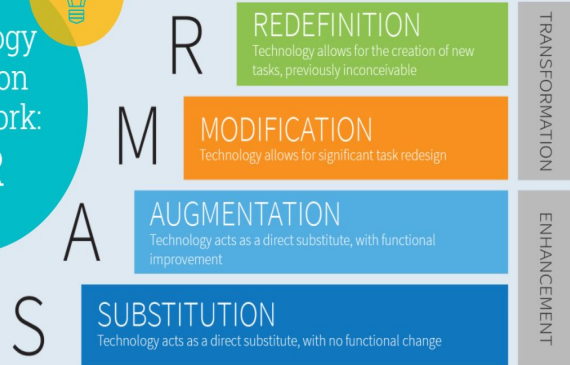


The image is a promotional graphic for the NSD Technology Teacher Leader Cohort: Learning Online, Digital Citizenship & Leaders session. It features a background of bare tree branches with colorful circles and icons (lightbulb, puzzle piece, thumbs up) overlaid. A large teal circle contains the title. A red banner at the top left provides Zoom and slide links. The Edmonton Regional Learning Consortium logo is in the bottom left.



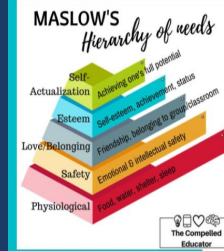
Teacher Technology Leader Cohort

Technology Integration Framework: SAMR



Tools for Differentiation

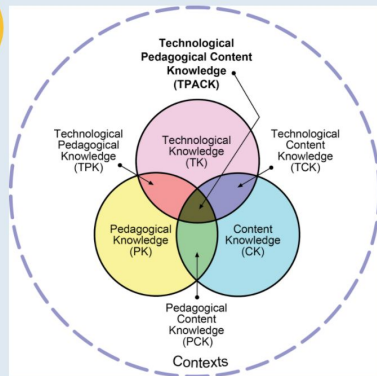
bit.ly/nsd0429
zoom.us/j/147480880



Maslow's before
Blooms or
Curriculum!

How will are you addressing
these needs first?

Technology Integration Framework: TPACK



ISTE Standards for Educators

Breakout and Discuss

Which standards are your
strengths and which ones are
stretches for you?




Making Formative
Assessment
Engaging and
Differentiated with
Tech Tools




Division Wide Technology Professional Learning

docs.google.com/presentation/d/1JvNI7X86vhE9T7Shvn6JHw-kZeWRwcWtKpL2-sTrnk/present?slide=id.g4c6...

Using Technology to Engage and Connect Pt. 2



THE NORTHLAND SCHOOL DIVISION



REGIONAL LEARNING
Partners in adult learning for students' success
www.eric.ca

Join the Zoom Session

Christine Quong

Shelley Stevens...

Bonnie Rollheis...

Robin Guild

Doug

Winston

Jeff Klein

Tatsuya Goto

Kelly Parsons

Virginia Cardinal

Sherry Seawolt

Mike Salko

Cal Johnson

Patrice Patrick

J Chambers

amanda ander...

Elia Haydon

Curtis Walty

delphine.brake

Hilary Banks

Savitri Prasad

Justin Grainger

cheryl.peredery

Laurel Young

Charles Greeni...

Curtis Walty

Shelley Stevenson

Hilary Morgan

Elizabeth

Tim Stensland

Stash DeGiacomo

Angela

Taryn Wellman

Patrice Patrick

Jess Chambers

Mandy Anderson

MR WEST

Miranda Goldsworthy

Tara Johnston

Crystal Colville

Catherine

Michelle

Katherine

Sam Mason

Sheldon Bossert

Cindy Moore

Cal Johnson

Aaron Sorensen

Michael MacLach

Curtis Walty

Sarah DeGiacomo

Jess Chambers

Crystal Colville

Cindy Moore

Shelley Stevenson

Angela

Mandy Anderson

Catherine

Cal Johnson

Nancy Spencer-Peterson

Hilary Morgan

Yvette Veerman

MR WEST

Michelle

Aaron Sorensen

Elizabeth

Taryn Wellman

Miranda Goldsworthy

Katherine

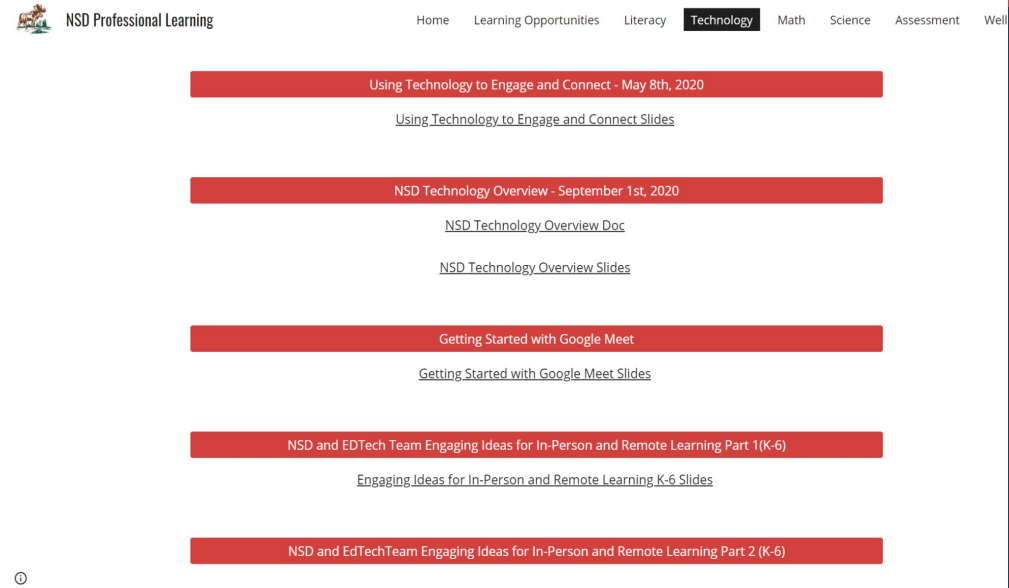
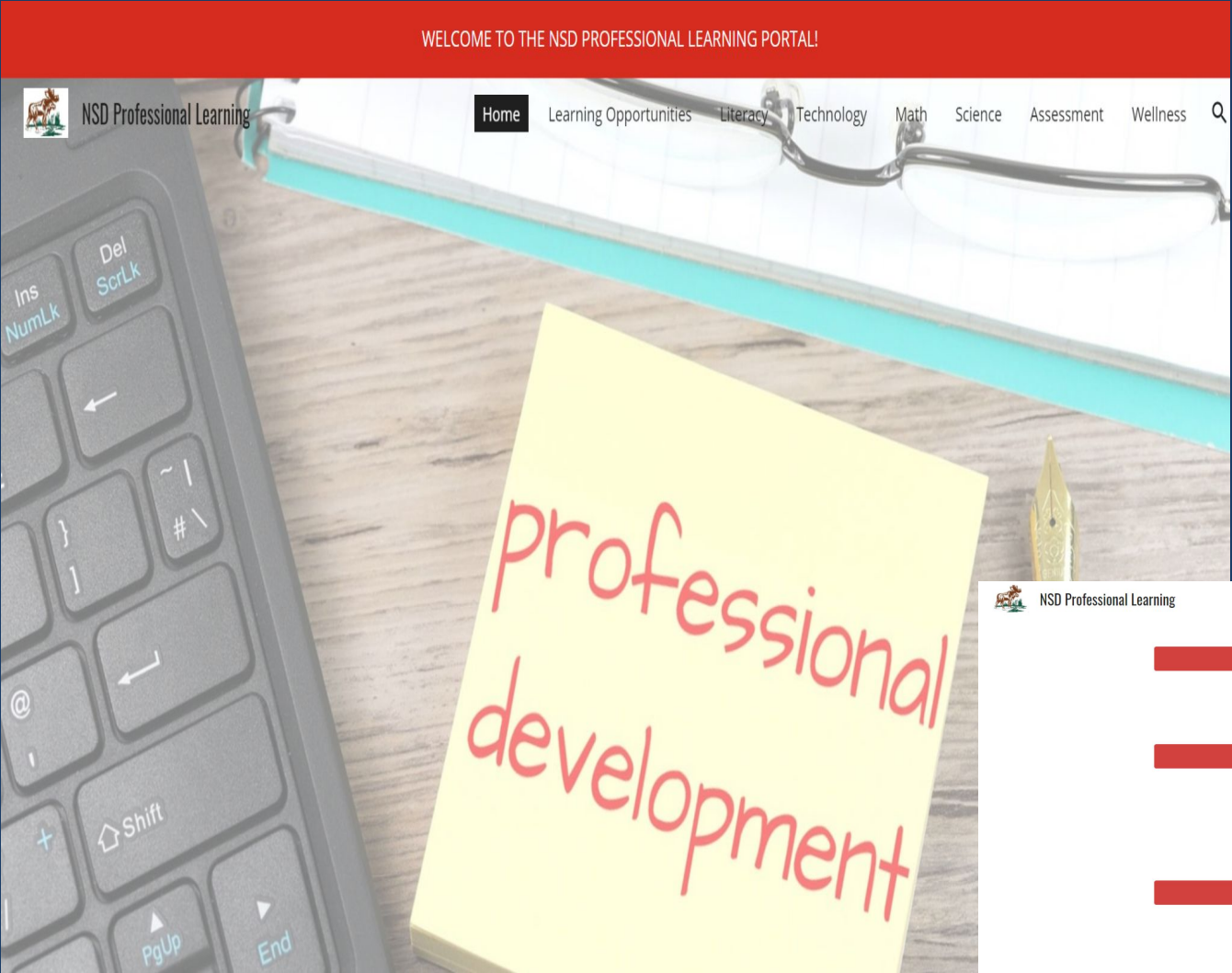
Sam Mason

Tim Stensland

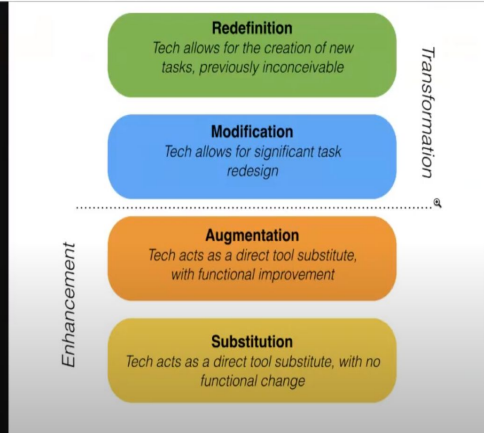
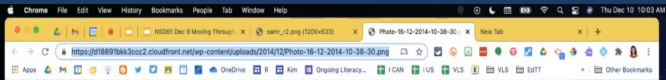
Patrice Patrick

Tara Johnston

Professional Learning Online Portal



Partnerships for Teacher Technology Skill Development



REC Mary Walker Hope is presenting

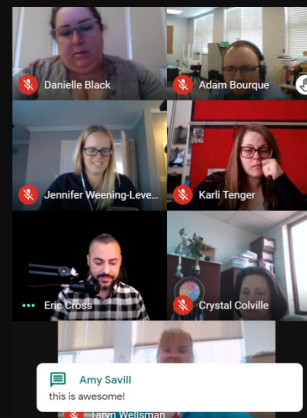
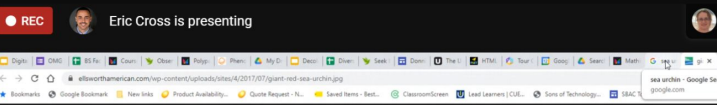
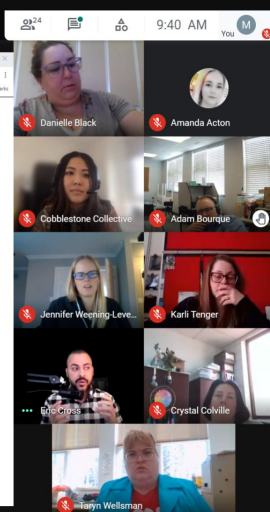
Which one doesn't belong?

REC Jenna-Marie Wirtanen Alyssa Carthy Jade Ingels Shailah Damji Mary Walker Hope Lorraine Anderson Mary Walker Hope Mar-Agnes Cardinal Cobblestone Collective

REC Eric Cross is presenting

Arduino Science Journal

Record your ideas and observations through text notes, photos, sensor recordings, and more. You do this by observation tools in the the bottom of the screen.



THE COBBLESTONE COLLECTIVE

Geo Tools in the Classroom

TheCC.Page/GEOTools

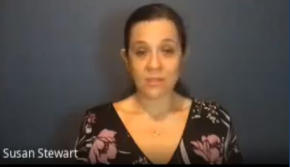


Partnerships for Teacher Technology Skill Development

Google Docs presentation titled "Pear Deck" showing a slide with three pears and the text "Pear Deck". The interface includes a sidebar with slide thumbnails and a top menu bar.



Google Slides presentation titled "Simple Narratives" featuring comic strip templates. It includes panels with a frog, a unicorn, and a girl holding a pencil, with speech bubbles and text like "What a lovely day!", "POOF!", "IS THIS REAL LIFE!?!?", and "The only thing that would make this lovely day better would be a friend. A rainbow unicorn friend."



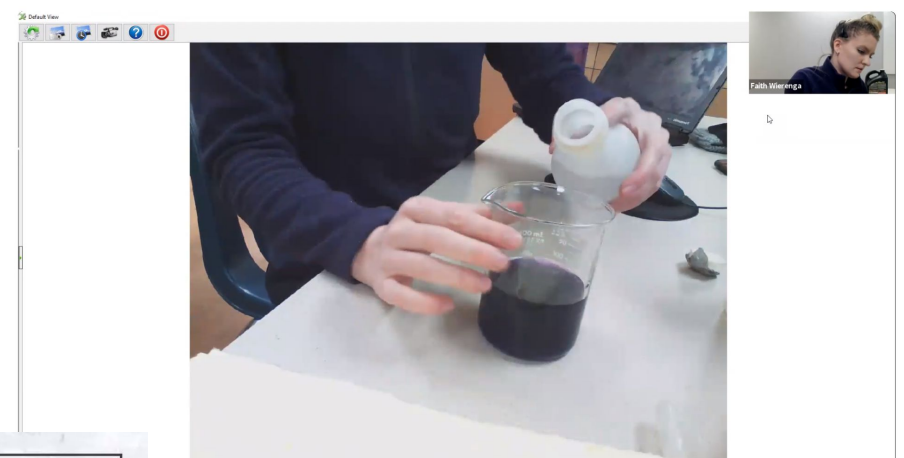
Website titled "Symbiosis Want Ad" featuring a "WANTED" poster for a sea slug and a "Us together FOREVER" image. The text describes a symbiotic relationship between a sea slug and algae.



Google Slides presentation titled "MR Swimming Pool" featuring a diagram of a swimming pool with sections labeled "SUBSTITUTION", "AUGMENTATION", "ENHANCEMENT SHALLOW END", "MODIFICATION", "REDEFINITION", and "TRANSFORMATIVE DEEP END". It includes text about using technology to support learning and teaching.



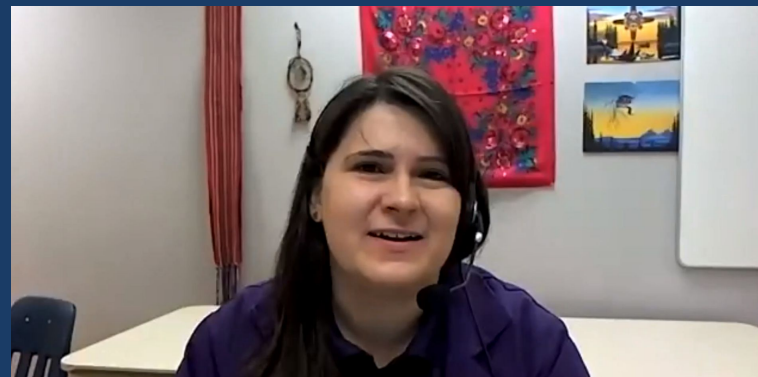
Engaging Students



Welcome to

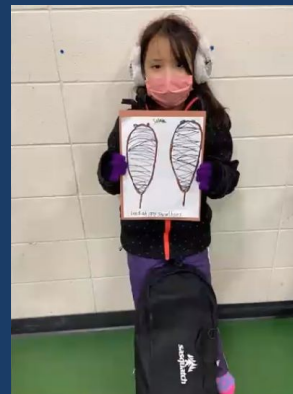
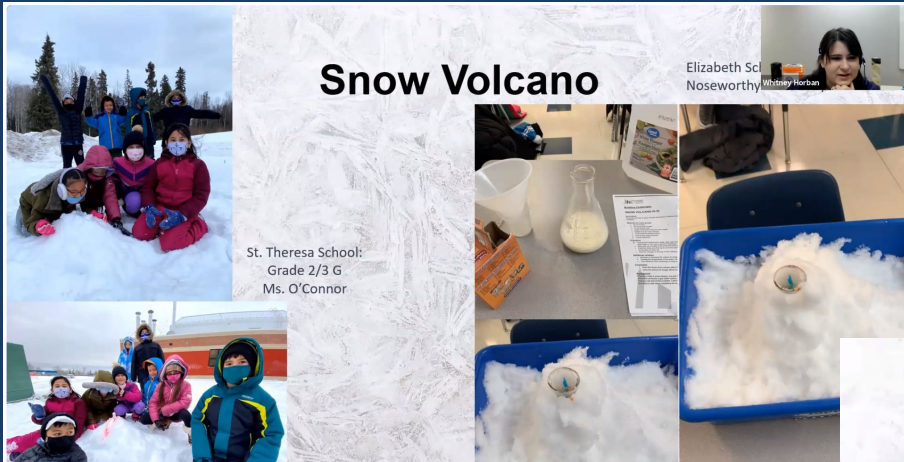
SIM Science Week: The Science of Winter

Presented by:



Engaging Students

Snow Volcano



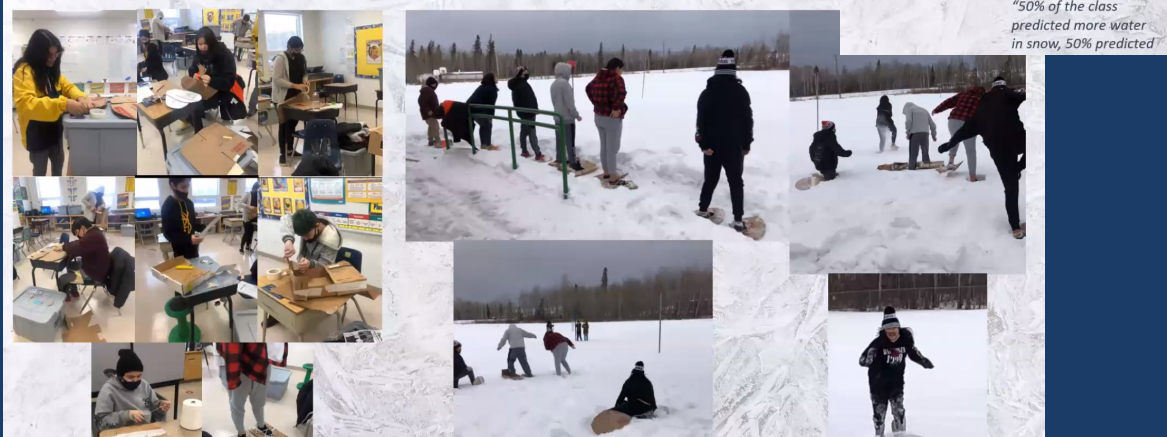
Ice Bubbles



How Much Water Is In Snow?



Cardboard Snowshoe Races



Snow Walk



Engaging Students

Animal Adaptations



Conklin Community School: Ms. Dirsas's Class

Animals I have seen in the summer

Migrate or hibernate

Bees - they are hibernating right now

Geese - migrating to a warmer place

Worms - they hibernate all winter long

Hummingbirds - some hibernate, some migrate and some put on a heavy coat to keep warm in the winter

Ducks - they migrate to a warmer place

St. Theresa School: Alarik Bouvier

St. Theresa School: Akili Merrier

What are the food needs of one of the animals you saw??

- Insects
- veggies
- seeds
- grains



Do all the animals you saw live in the same habitat?

Crows live in urban areas, open fields and shrub-lands. They usually are found near food edges, so we have to watch out for them everywhere.



Did any of the animals you saw have parents with them?



Snow Walk

Grouard School: Mrs. Deering's K-3 Class



Olivia Calahasen

"Using her sense of sight to find ice around the

Kevin Toraville

"Using his sense of touch on his snow walk"



Whitney Horban

Koda Willier

"Using his sense of taste to explore his environment."



"Discovering ice build up the ground"



Hillview School: Sebastian and Nevaeh



Snow Volcano



Conklin Community School: Ms. Dirsas's Class



Trying out our Snow volcanoes

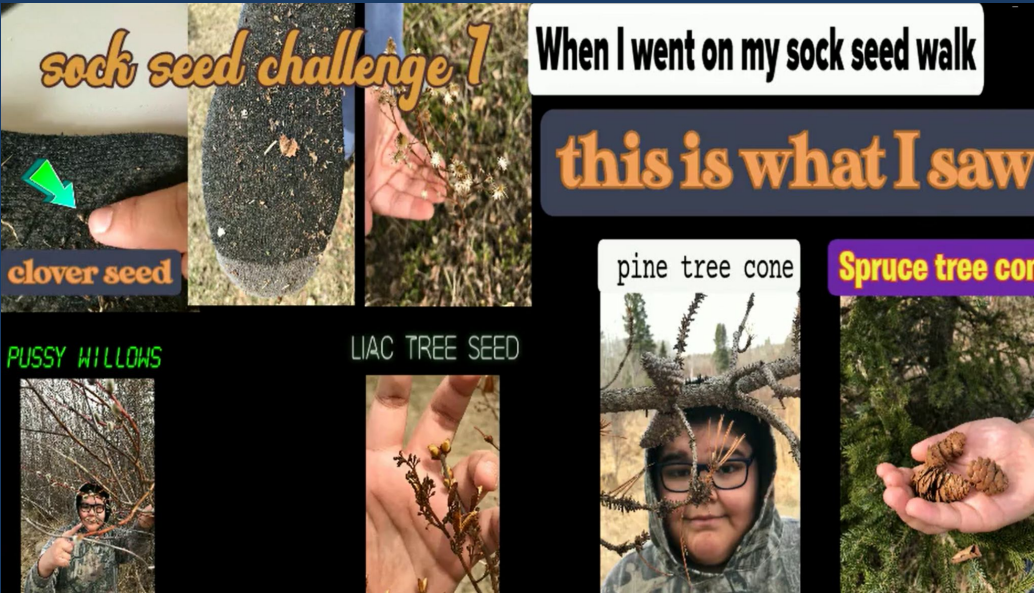
Calling Lake School:

Engaging Students



This is my Nature Walk

This is what I saw



Engaging Students



Question 3:
WHAT IS THE **AREA** OF A HOUSE THAT
MEASURES 5M X 5M?
THECC.PAGE / NSD1FORM



NSD61 Quiz.sptx - Microsoft

onedrive.live.com/.../resid=EB22C9C7091CE950%21601&id=documents&authkey=ACg5nrow08vWNA&

PowerPoint NSD61 Quiz.sptx - Saved to OneDrive

File Home Insert Draw Design Transitions Animations Slide Show Review View Help

Editing v Share Comments Present

New Slide

MINECRAFT
EDUCATION EDITION

NSD61 Ready Set Build:
An Introduction to Minecraft
<http://thecc.page/nsd61form>

Version 1, October 2018

Microsoft Education Training

Slide 1 of 11 English (US)



Page 1 of 7

Rogers Place was built in 1995. It is the home area of the Edmonton Oilers. The Oilers are a professional hockey team in the NHL.

Page 2 of 7

Sign



Chrome File Edit View History Bookmarks Profiles Tab Window Help

Minecraft Education Edition

Tour Guide

Tour Guide

Welcome to the iconic Calgary Tower. It stands at a whopping 191 meters in height. Find more from my friends in the area.

Learn More Fact



Question 2:
WHAT WOULD BE THE **PERIMETER** OF A
HOUSE THAT MEASURES 4M X 6M?
THECC.PAGE / NSD1FORM



Page 1 of 2

The chicken king was built in 1819, by the medieval chickens to worship their god. The chicken king has royal chicken monarchs living inside. The space below the great chicken king hosts great allies of the chicken kingdom.

Page 2 of 2

Export

Board

L = 18 W = 15 H = 6

Area = Length x Width

A = L x W

A = 18 x 15

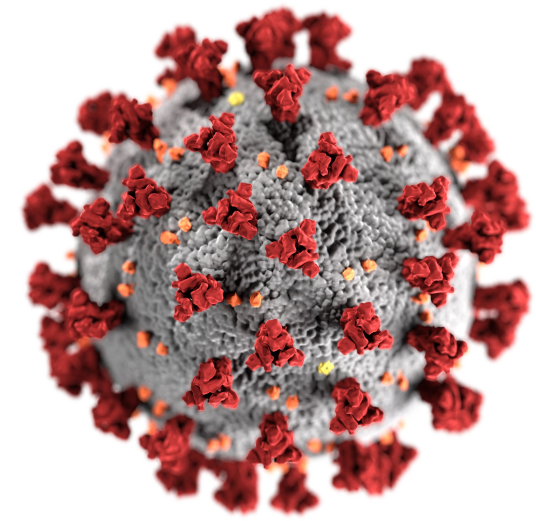
Area = 270

Perimeter L + W + L + W

P

Locked

Covid 19

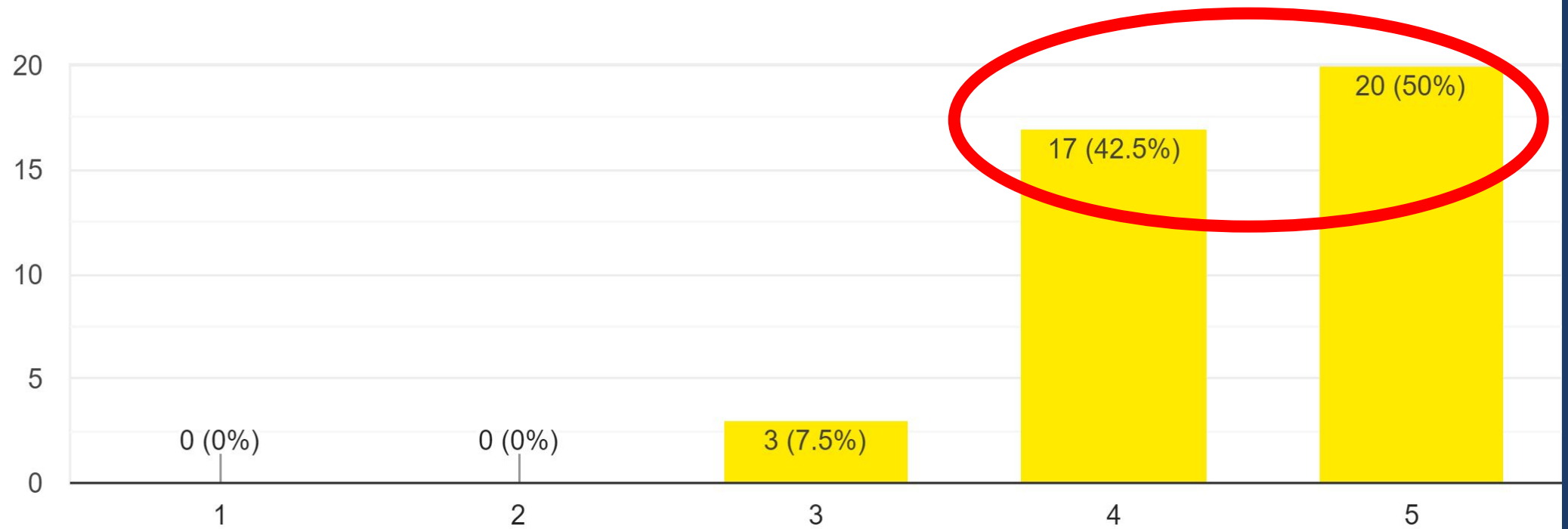


We were well on our way to using technology to engage and connect prior to Covid 19 but the pandemic moved us along faster.

Between March and June of 2020, Northland hosted and participated in close to 600 online professional learning opportunities to grow our technology skills even more!

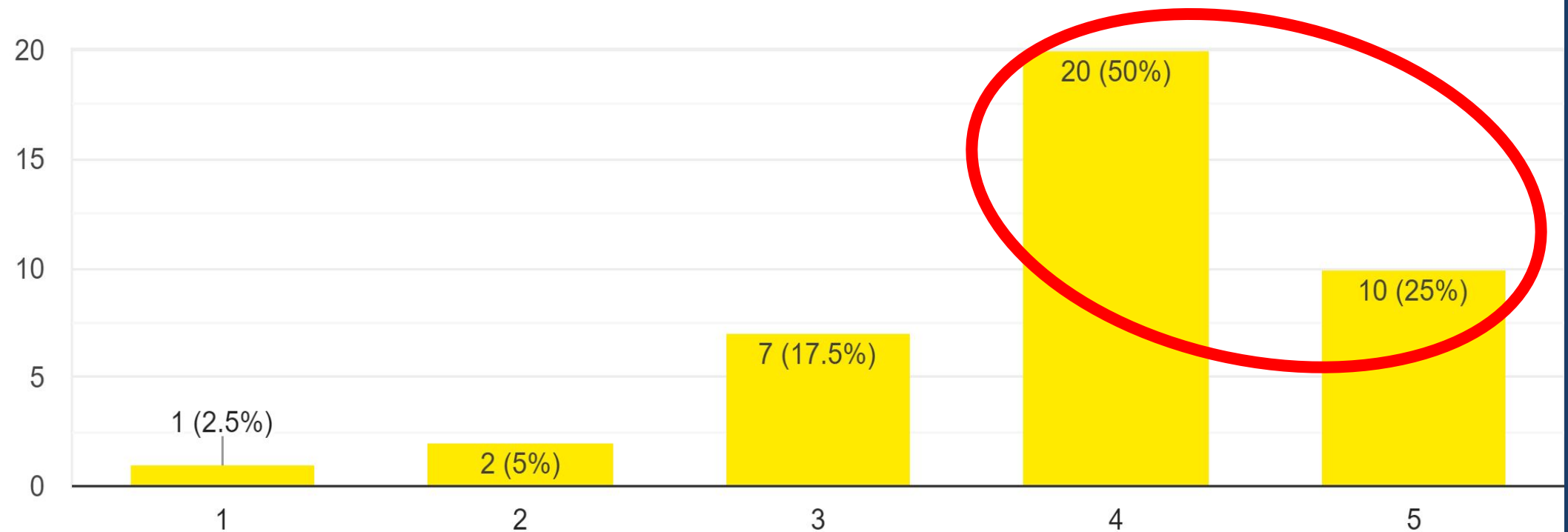
Rate your level of comfort with ONLINE professional development NOW.

40 responses



Rate your level of comfort using technology to teach remotely NOW.

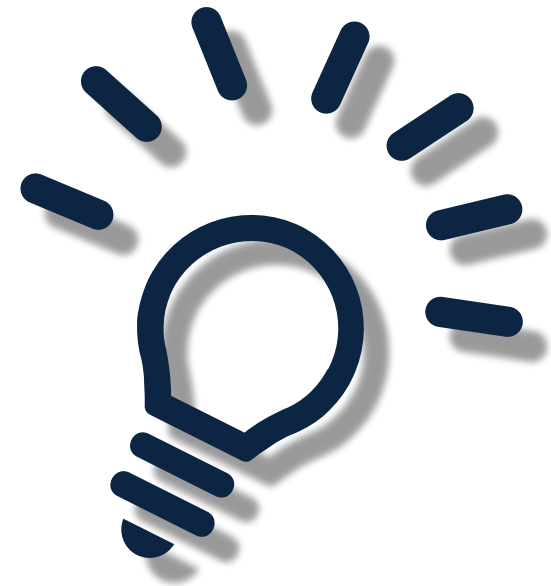
40 responses



Where are we now?



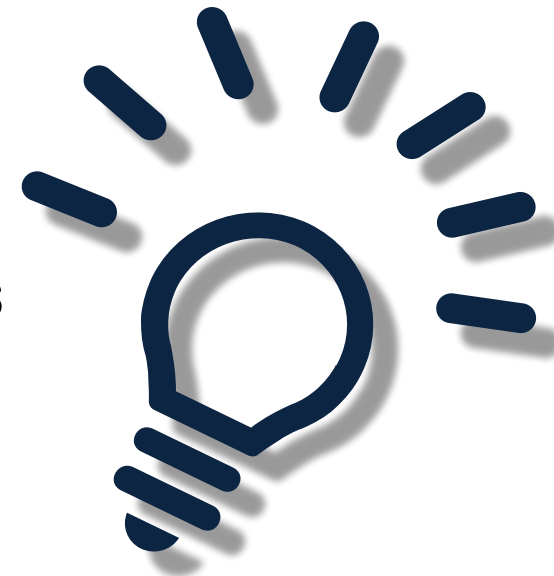
- **Distance between schools no longer a barrier**
- **Travel time is less and working more efficiently**
- **Connecting more often and more meaningfully**
- **Endless possibilities for how/when we work together**
- **Individuals no longer feel isolated and alone**
- **Relationships and networks of support beyond school/community boundaries**



Where are we now?



- **Teachers have the capacity to engage students with technology**
- **Technology plays a seamless role in enhancing and elevating learning**
- **Partnerships through technology have created deeper learning experiences for students**
- **Collaboration between classrooms has created opportunities for improved student learning**
- **Teacher professional practice has improved**
- **The knowledge building comes from inside - our teachers have the capacity and collective efficacy to support and model for each other**



Thanks for attending this NSD Professional Learning Day!



March 12th Professional Learning Day

[Home](#)

[Session #1](#)

[Session #2](#)

[Session #3](#)

[Teacher Talks](#)

[Meet and Eat](#)

[Discussion Board](#)

[Session Recordings](#)



Professional Learning Day.

Connecting the Dots with Technology: Creating Community and Continuity in the Classroom



8:30-9:00

Opening Remarks

[Click here to join!](#)

Teacher Talks

11:30-12:00 and 12:30-1:00

(Sessions Repeat)



Reading the Room and Building Bonds: Strategies and Tools to Engage Online learners - Hosted by [Taryn Wellsman](#)

[Click here to join!](#)



Elementary Digital Tools for ELA and Math: Two Teachers Share Their Successes - Hosted by [Karli Tenger](#) and [Rachel Cripps](#)

[Click here to join!](#)



Building Community in an Online Learning Environment: What We Have Learned - Hosted by [Aiden Grimes](#), [Tara Johnston](#), and [Bev Barca](#)

[Click here to join!](#)



Maintaining Continuity During a Pandemic for Principals: Communication, Teaching, and Learning - Hosted by [Mark Burke](#)

[Click here to join!](#)



Two Teachers - Google Classroom - Teaching Synchronously and Asynchronously to Create Harmony and Engagement- Hosted by [Leo West](#), [Sarah DeGiacoma](#) and [Rebecca Ning](#)

[Click here to join!](#)



Be Creative! Be Flexible! Look for Success! Teachers Sharing Experiences of Creativity and Success in a Covid World: A Facilitated Discussion - Hosted by [Lucas Whittle](#)

[Click here to join!](#)



Game Based Learning Using Technology Tools - Hosted by [Adam Bourque](#)

[Click here to join!](#)



Building a Virtual Classroom with Bitmoji - Hosted by [Miranda Goldsworthy](#)

[Click here to join!](#)



Creative Writing in a COVID-Friendly Class: Grade 7-12 ELA Ideas Using Physical Writer's Notebooks As Well As Digital Platforms! - Hosted by [Hilary Morgan](#)

[Click here to join!](#)

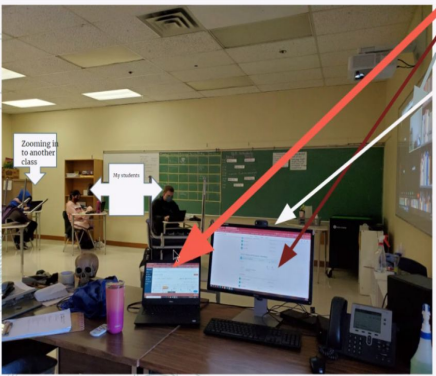


Sarah DeGiacomo is presenting

Jade Ingels and 2 more

11:44 AM

A VIEW FROM THE TEACHER'S DESK



Go Guardian (life saver)
Google Classroom
Zoom
Web Cam

What you don't see...
Microphone, second Zoom computer, 3 students zooming in from 2 classes away, 4 students zooming in from home, Students in class also zooming in to be in breakout rooms, Google Hangouts, multiple tabs, etc.

Lynne Couturier
Cheyne Allen
Cully Robinson
Mike Salko



Tara Johnston is presenting

11:42 AM

WE ARE WORKING TO NORMALIZE OUR ONLINE CLASSROOM

What aspects of learning would make online learning more like attending classes in school?

Establishing a strong line of communication with home.

- Mindful that parents are in a tough situation
- Recognize that our learners have a different learning environment. I.e: wifi connections, background noise, siblings etc.
- Offering suggestions to help their learner i.e: one on one tutorial, connect through G hangouts.
- Monthly newsletter specific to our learners.
- Requesting Parent Feedback

Aiden Grimes
Yvette Vermeer
Tara Johnston
Dev Barca
Derrick Valentine

Taryn Wellsman is presenting

Raelene Devich and 3 more

11:36 AM

What can you hear, but not see or touch, even though you control it?

Crystal Colville
Catherine Daniel
Kylie Malo
Sharon Loonskin
Debra McBride
Robin Guild
Julianne Cerna
Patrick Mugerwa joined
Jessica Chambers

Rachel Cripps is presenting

Google Jamboard

Recent Jams

- Ways to Jam 1 (Mar 12, 2021)
- Copy of Make A Pattern (Mar 12, 2021)
- Ways to Jam 2 (Mar 12, 2021)

Owned by anyone

Make a pattern with the shapes.

True or False

Michelle Deering
Lorraine Anderson
Jennifer Mcrae
Tonia Wells
Cassandra St. Denis

11:43 AM

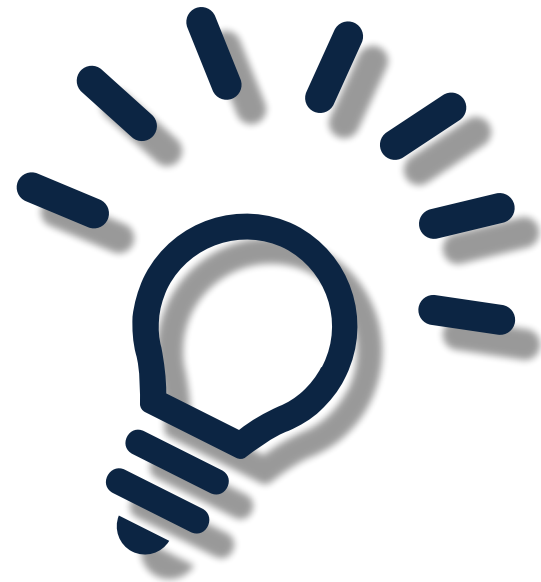
What things that your school does now would you like to see continue post pandemic?

Angela Sanregret
Rachel Starr
Rosalind Best
Cal Johnson
Mark Burke
Jason Wicks
Amy Savill

What's next?



- **Coordinated division wide professional learning communities**
- **High School coordinated schedules/collaboration**
- **Remote coaching/feedback technology for teachers**
- **Co-teaching opportunities through technology**
- **Using technology to share and collaborate with other divisions**
- **Online learning that includes incorporating Indigenous language, culture, and local knowledge into the curriculum - Northland Online School**



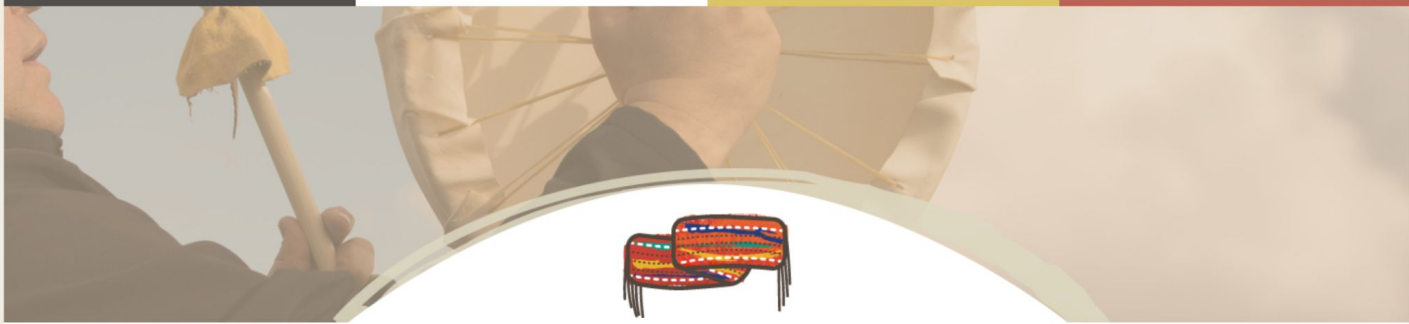


Online School Announcement



NORTHLAND SCHOOL DIVISION NO.61





DIVISION NEWS

About Us

- History
- Map of Northland School Division
- Partnerships
- Executive Team
- Calendar
- Reports
- Division News**
- Achimowin News Flash
- Staff Directory
- Contact Us



NSD launching an online school for the 2021-2022 school year

POSTED ON JUNE 1

Tags: Division News

A new learning environment is going to give Northland School Division (NSD) students another avenue to accomplish academic success. NSD is pleased to announce that they will be operating an online school for the 2021-2022 school year. The online school will serve students in grades Kindergarten to Grade 9.

“During this challenging time due to COVID-19, we purposefully invested in leveraging the use of technology to support and improve the student learning experience,” said Dr. Nancy Spencer-Poitras. “We have put ourselves in a position to offer this learning experience with the technology infrastructure upgrades we made and the skills NSD staff have acquired through division-sponsored professional learning. There’s also demand for online learning that includes incorporating Indigenous language, culture, and local knowledge into the curriculum for the communities we serve. “We are excited to make this happen.”

“This is an exciting day for Northland School Division families,” said Robin Guild, Board Chair. “A student should have the ability to choose their own learning path. The online school provides another choice for NSD students in Kindergarten to Grade 9. As a Board, we have focused on improving communication with communities. Today’s announcement is an example of what NSD is doing to achieve excellence in learning, leadership, and relationships.”

The online school will utilize a whole school and personalized approach to learning where learners participate in inclusive and engaging online learning experiences. In this environment, student voice and choice will be encouraged and celebrated within a kind and caring community of learners.

“NSD students who participated in at-home/online learning this year received a quality learning experience,” said Spencer-Poitras. “The online school will give NSD students the same quality learning experience as in-school learning. The incorporation of Indigenous language, culture, and local knowledge into the curriculum will further support a holistic program.”

Registration details for the online school will be communicated in the coming weeks.

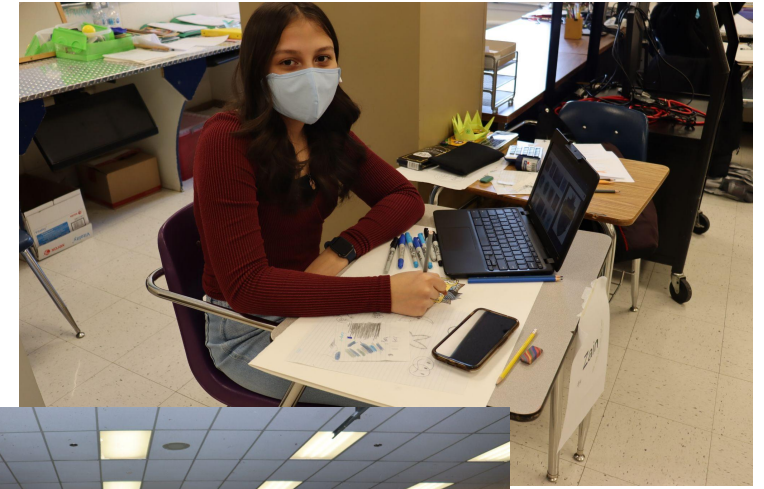


Northland Online School
Announcement



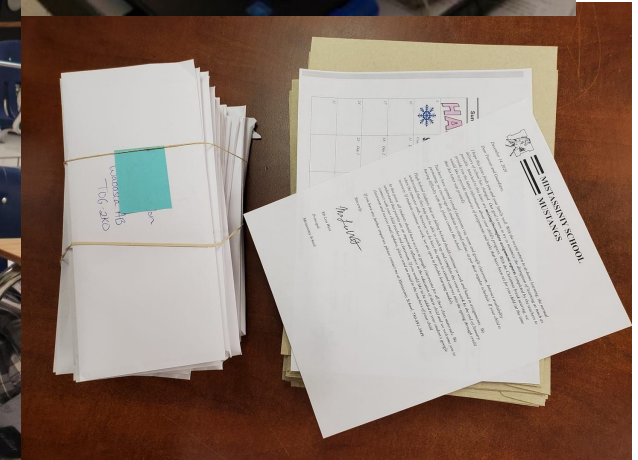
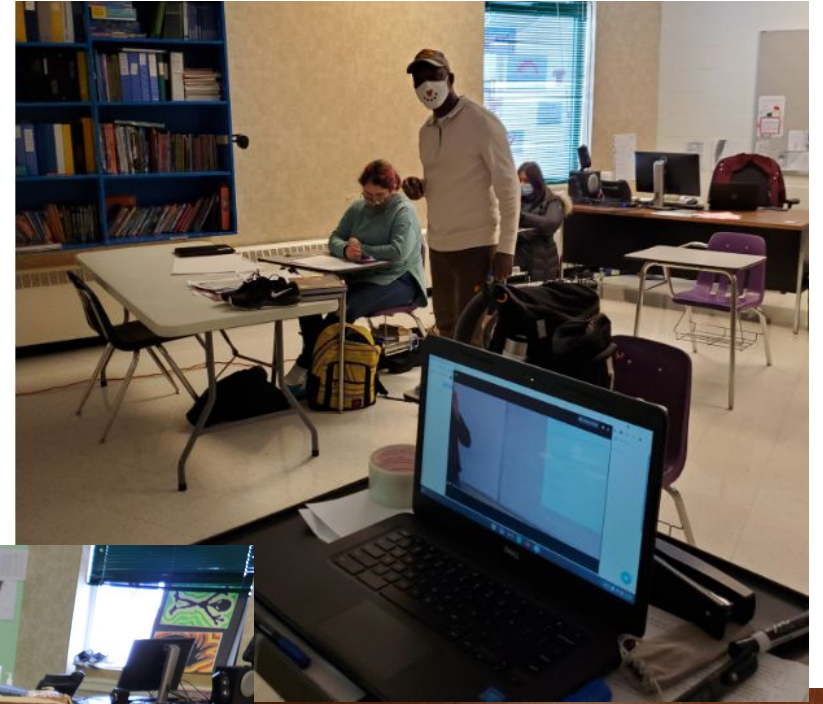
Mistassiniy in the time of Covid

- From the Principal's perspective...
 - What did we do and why?
- Cohorted everything
 - Dine in lunch! Staggered yard time. Staggered release. PE/Shop/Food/Science Lab schedule
- A couple of new procedures...
 - New cleaning and sanitation regiment, one way hallways, wings separated, floor decals, floor stickers, infirmary, broken laminator, etc!
- New Tech -More webcam/microphones, personal microphones with speaker, doc cam, OWL and a variety of NSD Software for online learning

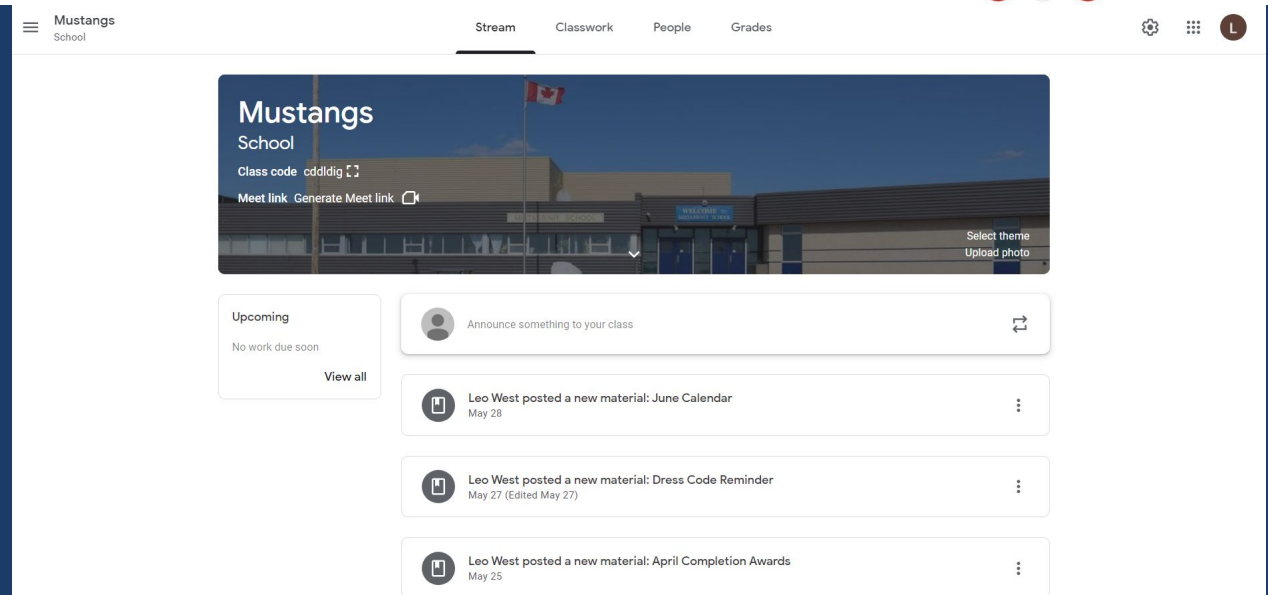
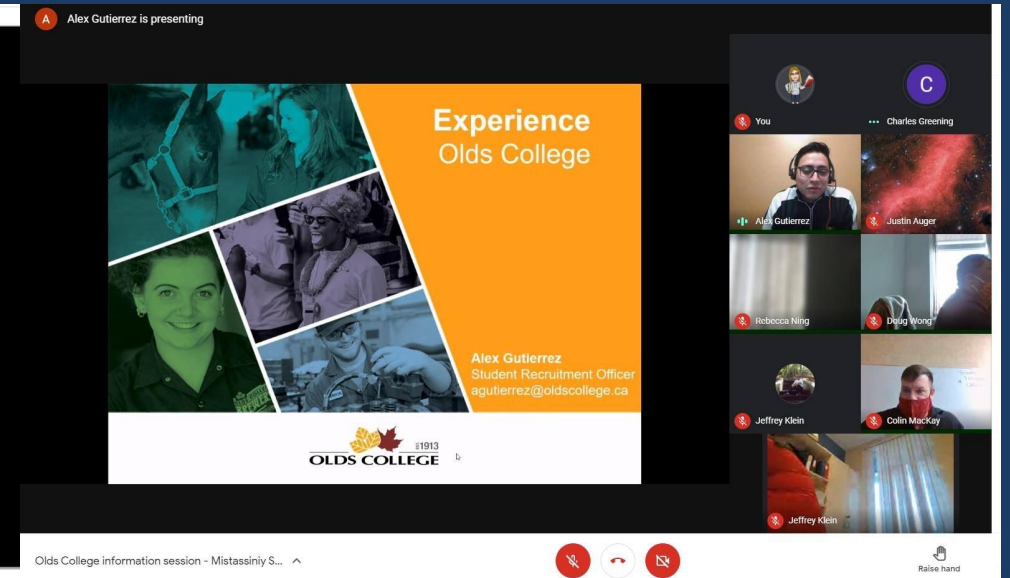
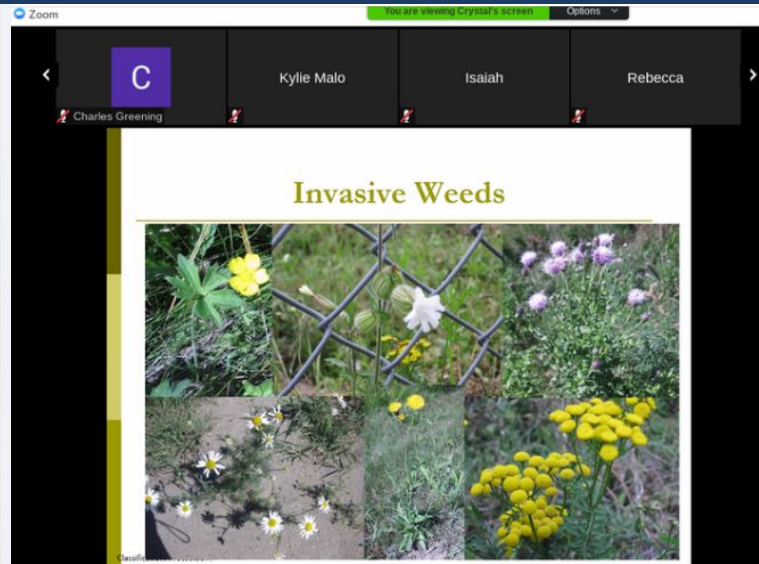
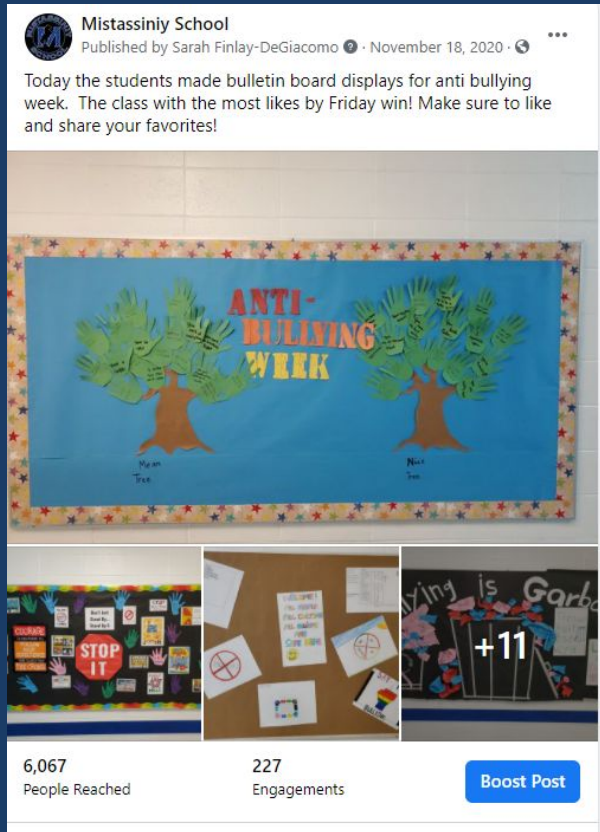


Mistassiniy in the time of Covid (cont)

- Google Classrooms
- Attendance, nope completion Awards
- Progress Reports!
- Mirrored Classrooms
- At-home and In-school students combined



Whole School Communication



- Mustang Classroom
- Zoom Field Trips
- Facebook, Instagram

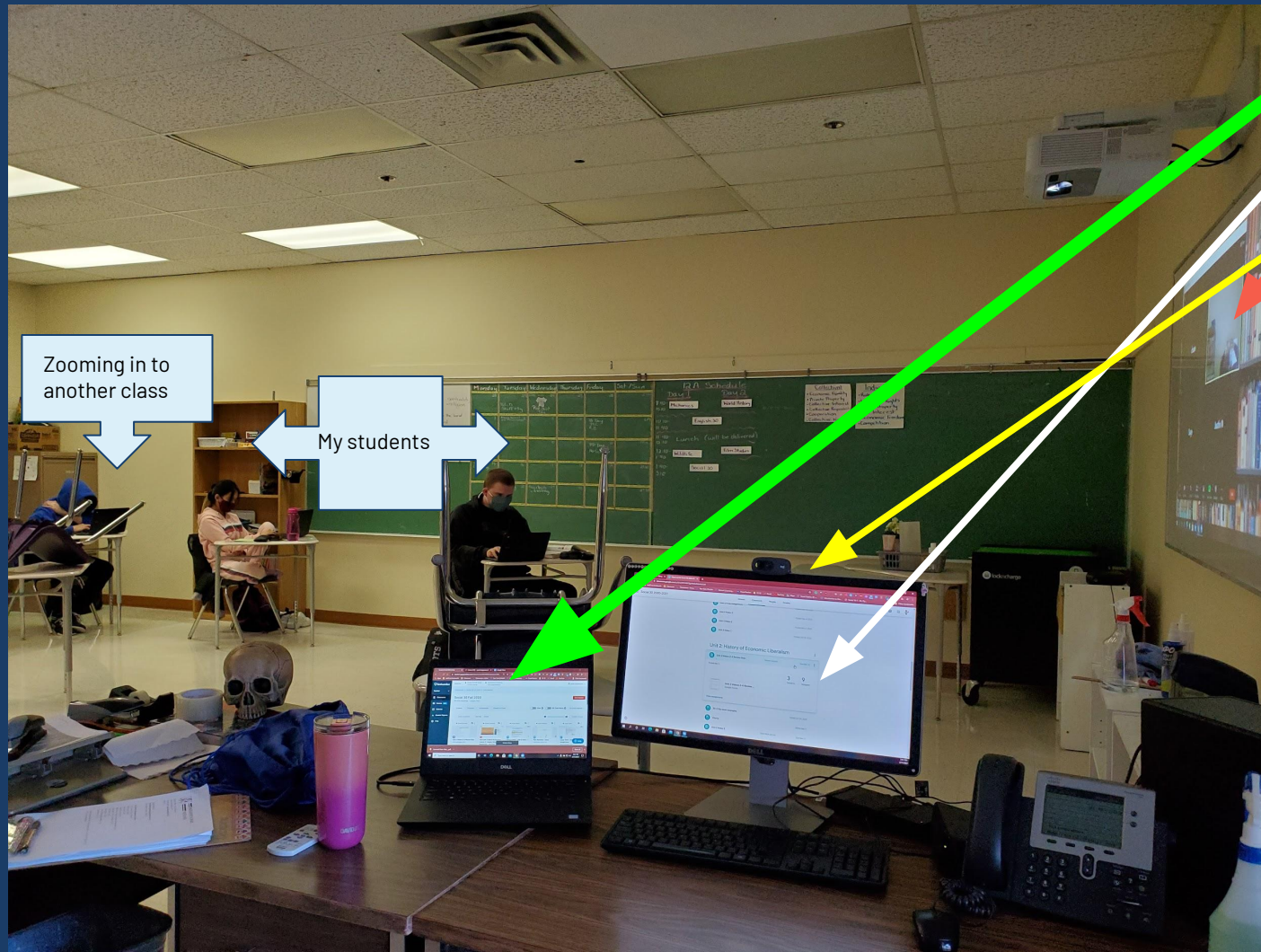
Whole School Communication (cont)



- **Events (in the last two months):**
 - **Healthy Relationships Day – Guest Speaker Corb Lund.**
 - **Earth Day – Planted trees, scavenger hunt etc.**
 - **Mother's Day – Students wrote cards for their mothers**
 - **Anti-Vaping Day – Bulletin Board Competition**
 - **MMIWG Day – Students wore red and watched informative videos.**



A View from the Teacher's Desk



Go Guardian (life saver)

Google Classroom

Zoom

Webcam

What you don't see...

Microphone, second Zoom computer, 3 students zooming in from 2 classes away, 4 students zooming in from home, Students in class also zooming in to be in breakout rooms, Google Hangouts, multiple tabs, etc.

Flipped Classroom

Understanding Collectivism and Individualism

Video 2 – Individualism & Collectivism



the values of _____. This
without the government getting in the way,
m out
care is an example of collectivism

_____ was when people start to see

- a. .
- b. .
- c. .
- d. .



Record a Response

4 Responses

88 views · 0 comments · 1.8 hours of engagement

Search



Record a Response



Charles G
And my chickens!



Charles G
Intro to me



Sarah D
Feb 5



Leo W
Introduction from Mr West

- Pre-record lessons (Screencastify/Flipgrid/Zoom/etc)
- Class time spent on working through assignments, not Lecturing!

OWL Meeting Tool for Hands on Learning

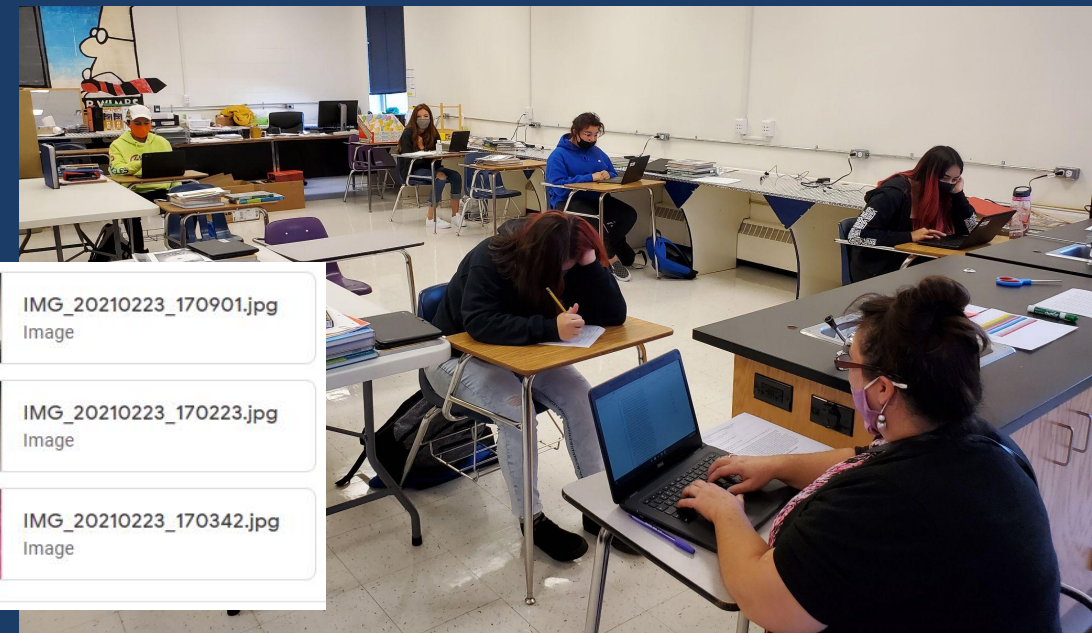
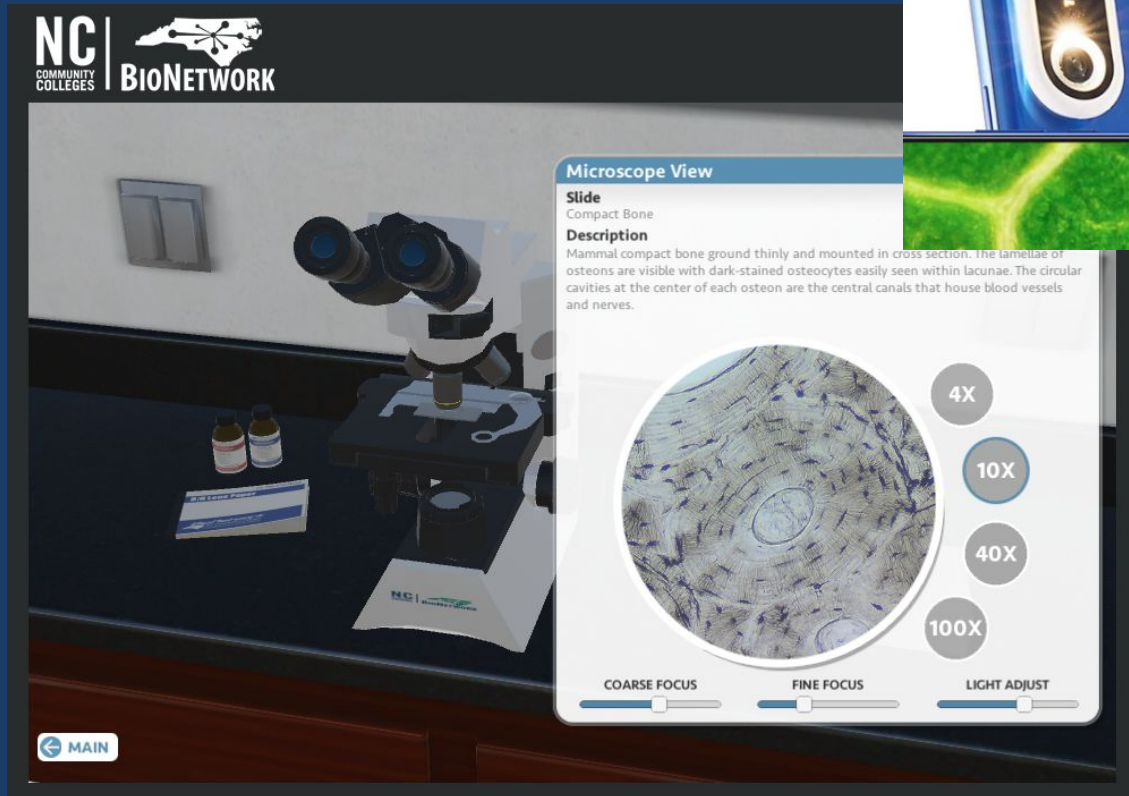


Commitment to Hands on Learning



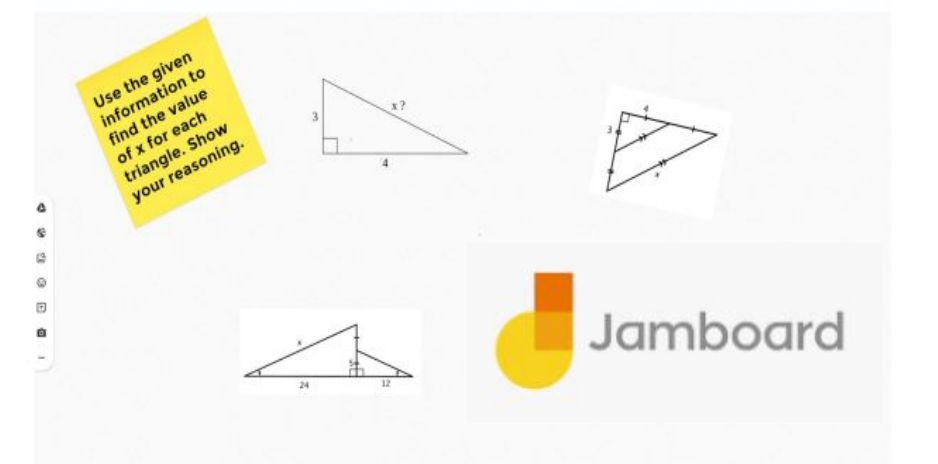
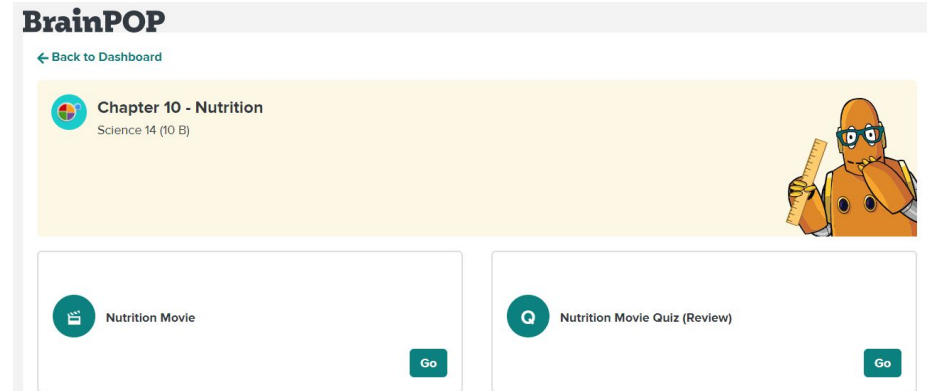
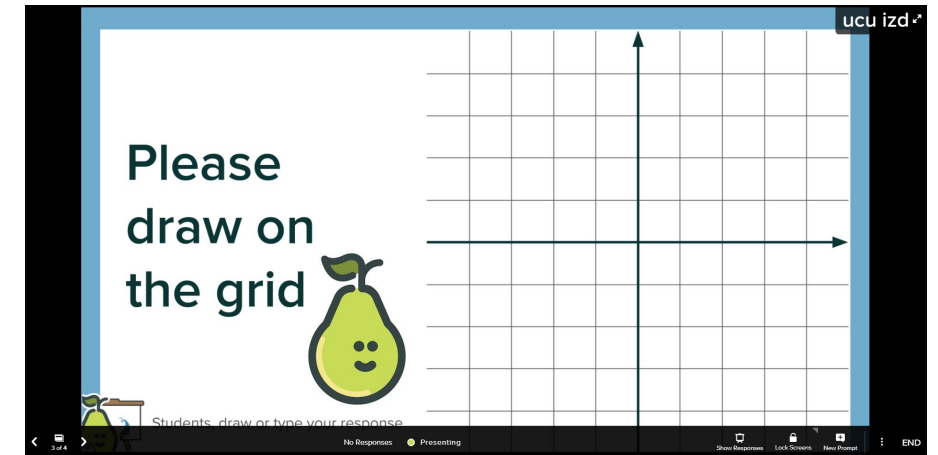
Technological Equipment

- Ipevo (docucam) for Math/Science
 - Let your at home students see demos
- Virtual Microscope



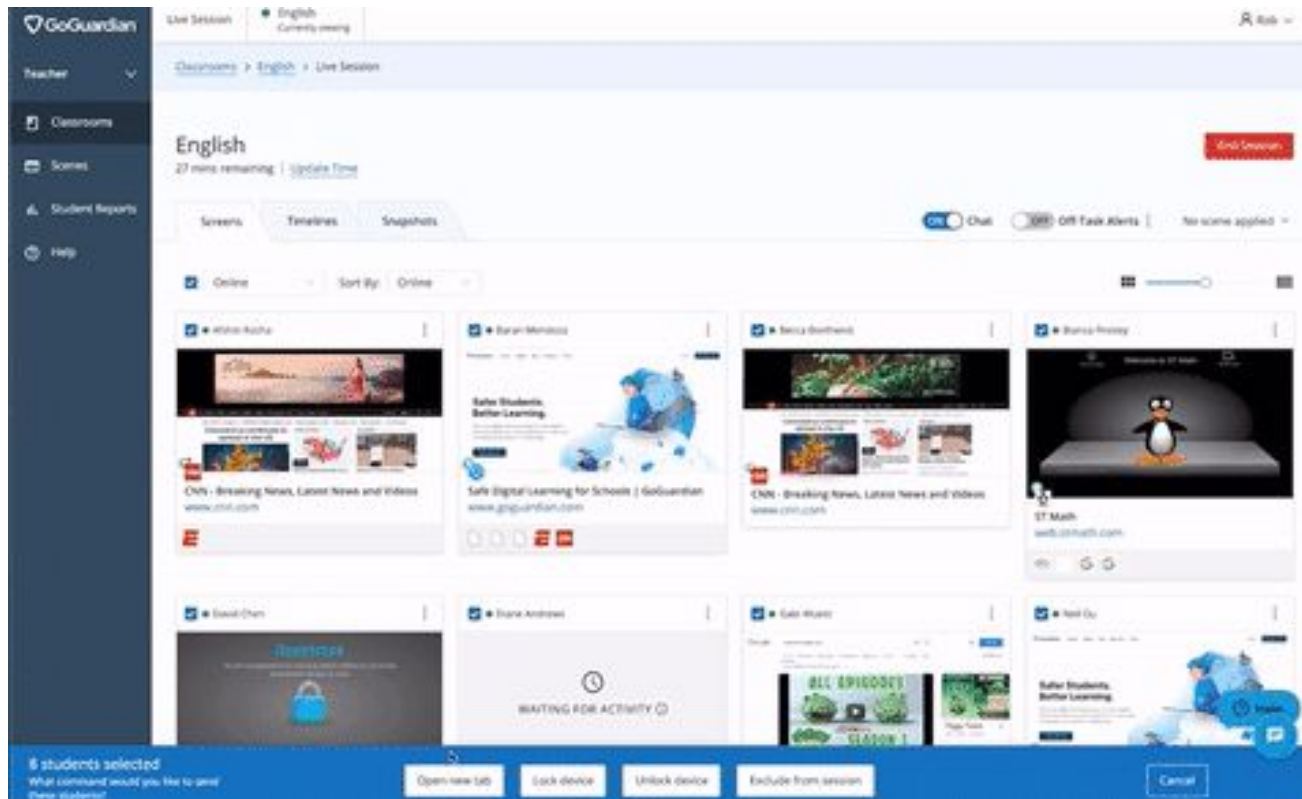
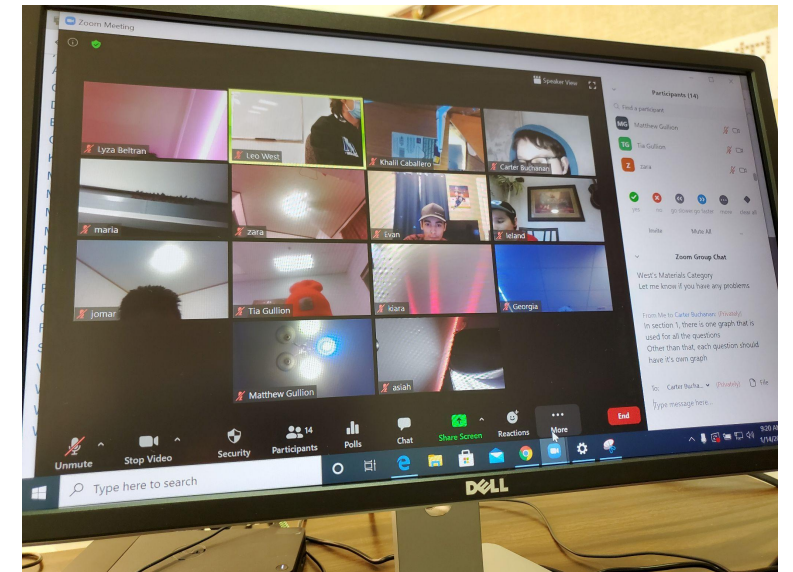
Technology Software in use!

- Peardeck
 - Students participate, anonymously in real time. Instant feedback.
- Jamboard
- -Great for brainstorming, group projects.
- BrainPOP
- High Quality Videos, and corresponding quizzes, challenges and games.
- Read&write, Flipgrid, Kahoot, Mathletics, Quiziz, etc.



Hello... Anyone there? Go Guardian!!!

- Chromebooks for every student
 - Students participate, anonymously in real time. Instant feedback.
- Go Guardian on every Chromebook
 - Live monitoring program



Any Questions?

