

# School Council Meeting #3

Monday, November 29, 2021

Our meeting starts at 7:00 p.m.

Questions?

Pls use the  
link in the  
Chat.



Please mute your  
mic.

# Agenda

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- **Land Acknowledgement** - Ms. Amanda Boughtflower
- **USAC updates** - Yifei Wang
- **School Council Forum Update** - Anoosh Sharif
- **Admin updates** - OSSLT; EQAO; Safety issues - parking lot
- **Community Corner** - Ms. Amanda Boughtflower
- **Program and Subject Specific Presentations:**
  - STEM - Mr. Jeff Chan
  - Science - Ms. Elaine Howard
  - Visual Arts - Mr. Shane Clodd

# Land Acknowledgement



We affirm that we are all treaty people and acknowledge that the York Region District School Board is located on the lands of two treaties. These treaties have been signed with the Mississaugas of the Credit First Nation and the First Nations of the Williams Treaties who are: the Mississaugas of Alderville, Curve Lake, Hiawatha, Scugog Island; and the Chippewas of Beausoleil, Rama, and Georgina Island who is our closest neighbour and partner in education.

To honour this agreement we will take up our responsibility to be respectful of their traditions, knowledge and inherent rights as sovereign nations. We will respect their relationship with these lands and recognize that our connection to this land is through the continued relationship with these First Nations, and we acknowledge our shared responsibility to respect and care for the land and waters for future generations.

# USAC Updates

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- Governance Work & Recent Events

*Presented by: USAC Student Rep*

*Yifei Wang*

# School Council Updates

Conventional Semester Model

Subject to local public health approval.

# School Council Updates

Projects that demonstrate parent-family input on how schools can improve in at least one of the following areas are eligible for funding.

Addressing social inclusion and racism specifically anti-Asian, anti-Black, and anti-Indegenous discrimination and bias and other prejudices toward racialized and marganalized groups as well as inequities and systemic barriers faced by these designated groups.

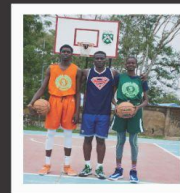
School Council Forum Updates

# Admin updates

- Welcome
- Timetable Schedule Changes - December 6, 2021
- New/Returning Staff
  - Annalisa Sisti (visual arts and English)
  - Maggie Ho (music and math)
- OSSLT
- EQAO
- Safety issues - parking lot
- Supporting Shoe Drive for BCSS



**ENRICHING  
CHILDHOOD**  
Through Education & Basketball



GENTLY USED ATHLETIC  
**SHOE DRIVE**

Help the BSA  
reach our goal  
of 1000 pairs of  
shoes!

In Minna Nigeria, many families live in extreme poverty. Shoes are urgently needed for children to play sports safely and to walk the miles it takes to get to school. This year, Bill Crother's **Black Student Alliance** is teaming up with **TimeOut4Africa** to help address this problem.

By donating your new and gently used athletic shoes, you are helping to ensure safe play and safe access to school for the children of Minna, Nigeria.



scan to read the impact your donation can have



**SHOE DROP OFF IN FRONT OF THE OFFICE**  
**NOV 10TH- DEC 8TH**



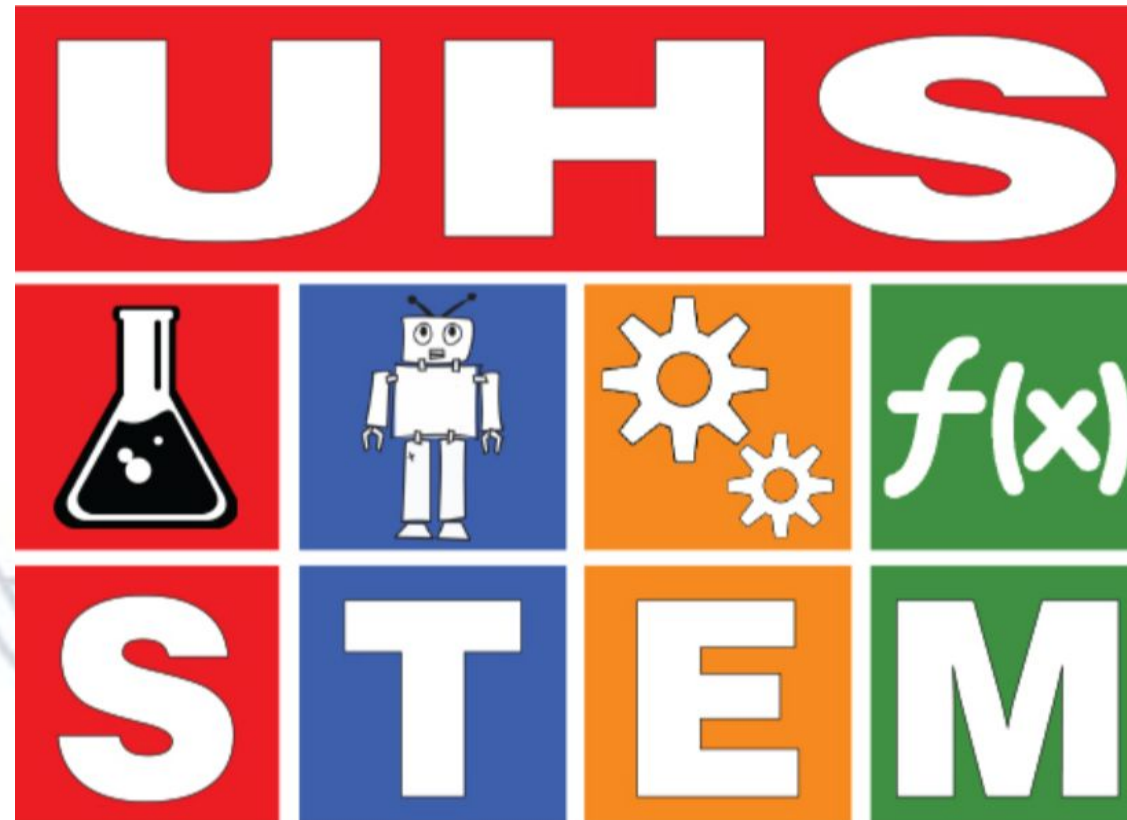


# Community Corner

- ❑ I am the teacher of the Life Skills Class.
- ❑ One of our goals when coming back to school full time this year was to rebuild our sense of Community.
- ❑ In this spirit we would like to share with you some of our projects.



# STEM Program Update



# What is the STEM program?

- Teacher led voluntary program emphasizing science, technology, engineering, and mathematics
- Non-regional program meaning support from community and parents goes a long way

# UHS STEM Team

<b>Science</b>	<b>Technological Studies, Computer Engineering &amp; Computer Science</b>		<b>Mathematics</b>
<b>Mr. Chan Ms. Howard Ms. Mantelos Ms. Wong</b>	<b>Mr. Dennis Mr. De Paolis Mr. Sypal</b>	<b>Mr. Anandarajan Mr. Cho Mr. Kotsopoulos</b>	<b>Mr. Leung Ms. Sharma</b>

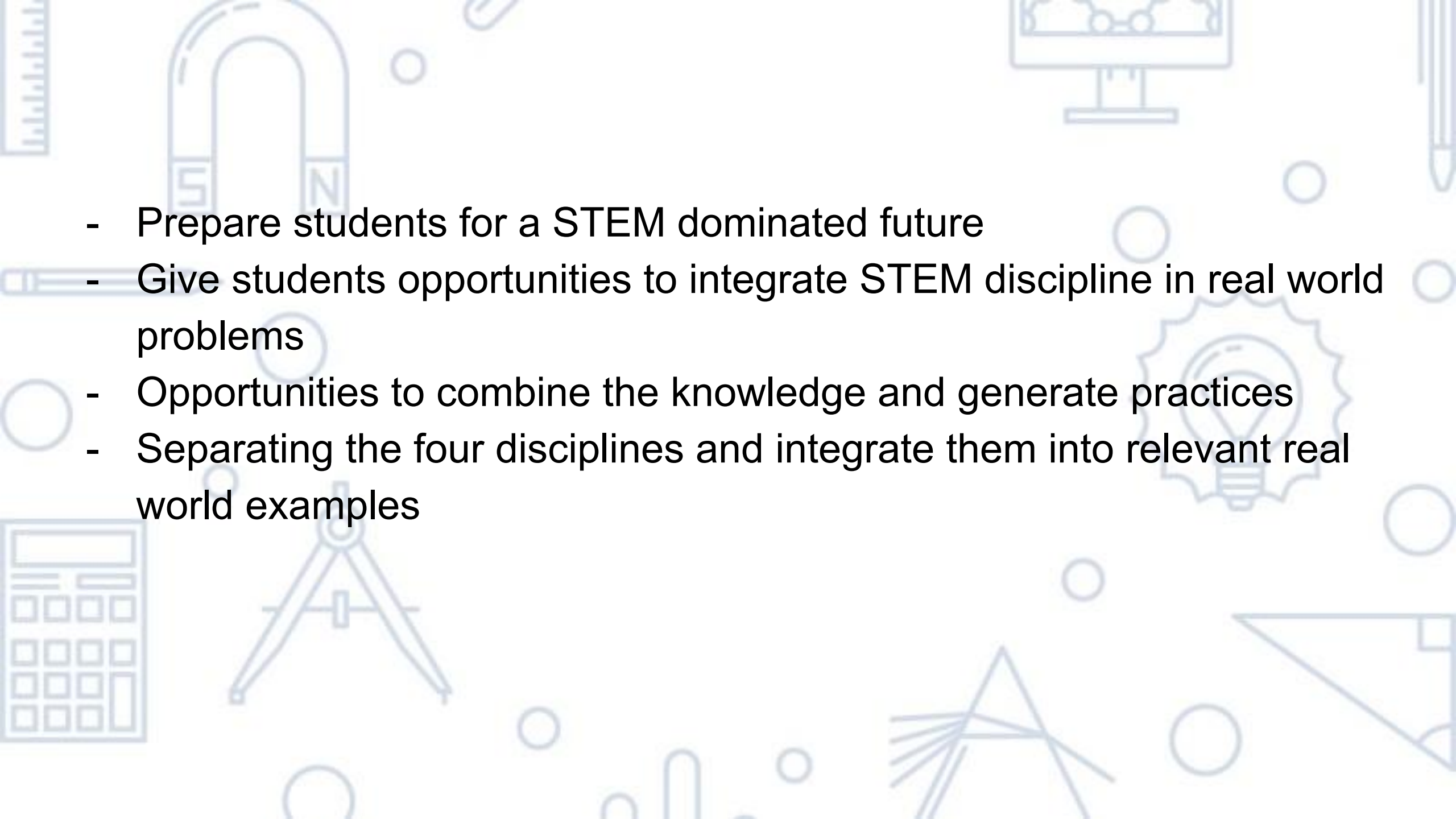
# Enrollment (as of Nov. 2021)

<b>Grades</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Enrollment</b>	<b>110</b>	<b>135</b>	<b>61</b>	<b>14</b>

# Why STEM? 4th Industrial Revolution!

- Technological changes are drastically altering how individuals, companies and governments operate
- Societal transformation similar to previous industrial revolutions



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- Prepare students for a STEM dominated future
  - Give students opportunities to integrate STEM discipline in real world problems
  - Opportunities to combine the knowledge and generate practices
  - Separating the four disciplines and integrate them into relevant real world examples

# Skills Development

- Global awareness
- Literacy (civic, health, environmental, financial, and economic)
- Critical thinking and problem solving
- Creativity and innovation
- Communication and collaboration
- Initiative and self-direction



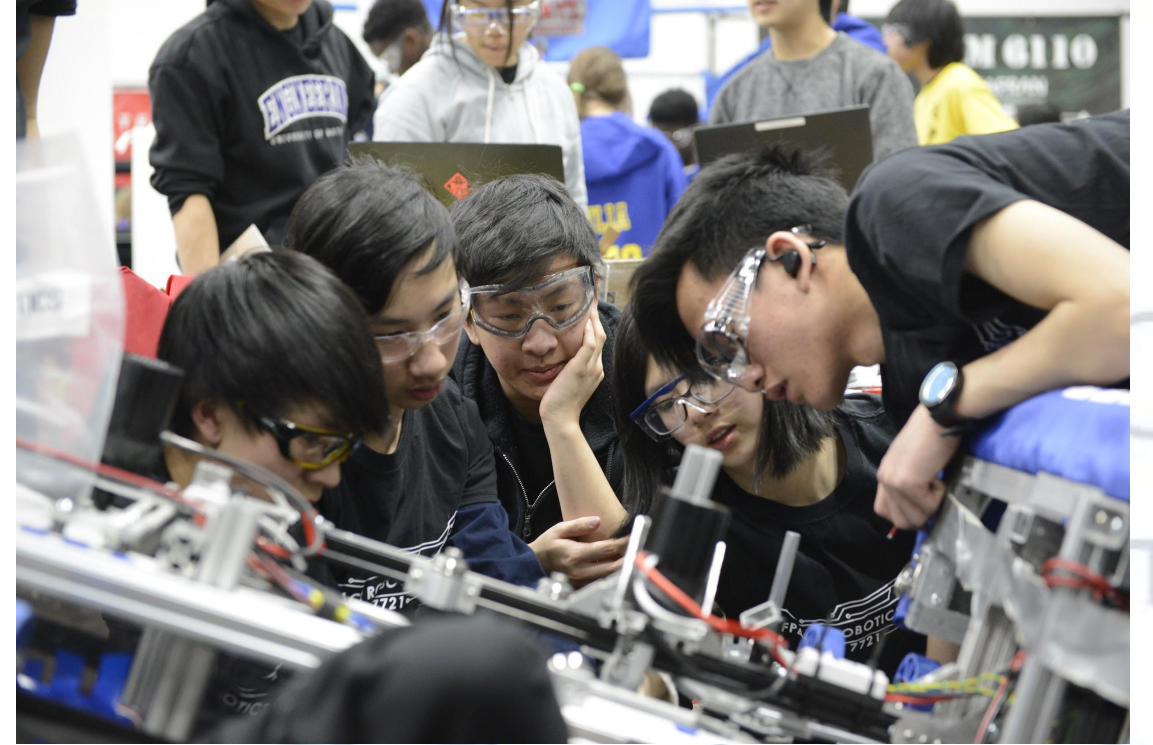
# Program Requirements

- Courses: 4 science courses, 4 mathematics courses, 3 computer science/computer engineering courses, and 1 technology course
- Participation in at least one extracurricular activity within UHS every year
- Participation in 1 STEM (interdisciplinary) learning event hosted by different departments at UHS per grade per year
- Final reflection at the end of their four years on how the student has benefited from their experiences in the STEM program

# Clubs and Activities

- Contests
- Clubs
- Guest speakers
- Webinars
- Mentoring
- Training
- Community outreach





# Current Plan 2021-2022

Grades	9	10	11	12
Department	Construction technology and Engineering	Science	Computer Science and Mathematics	Engineering and Science
Activity	Shadow boxing!	Soiling Ourselves Silly!	Stats STAT!	Real Problems, Real Solutions

# Grade 9: Shadow Boxing!

- Students will deconstruct devices and reassemble in plexiglass
- Allows for detailed analysis on all the components of the device
- Group proposal on a reimagined device



# Grade 10: Soiling Ourselves Silly!

- Students will design sensor programs, put together automatic sensors (light, water, and nutrients) and automated water systems
- Designed to be a half-day STEM program for two cohorts of Grade 10s
- Students will be primarily programming with Micro:bits



# Grade 11: Stats STAT!

- Important for digital literacy
- Students will design computer programs that will organize and analyze of huge amounts of data
- Sample data:
  - National employment rate
  - CO<sub>2</sub> emission
  - Access to fresh water
- Policy analysis on researched data



# Grade 12: Real Problems, Real Solutions

- Freedom of choice for students
- Final collaboration proposal and reflection
- Real World Design Challenge
- Canada-Wide Science Fair





# Past Activities



# Pandemic Times

- Virtual guest speakers
  - Felix Lee from IBM
  - Almond Au from Google
  - Dr. Timothy Cheang from Markham-Stouffville Hospital
- Webinars
  - df
- Virtual contests
  - Beaver Computing Challenge
  - Michael Smith Challenge
  - Real World Design Challenge
  - Pascal Mathematics Contest

# Future Plans

- Based on student reflection of the program, activities will shift towards student centered interests
- Plan to collect and analyze data and feedback to further enhance learning to better serve student strengths
- Ultimate goal will be for students to be leaders of their own STEM learning

Questions?





# Science Program

Unionville High School



# Our Science Teachers

Ms. E. Howard: subject head

Mr. J. Chan: subject assistant head

Mr. F. Baig

Mr. D. Dietrich

Ms. H. Houghton

Ms. L. Irving

Ms. G. Mantellos

Dr. R. Prabhakar

Ms. S. Tariq

Ms. K. Tran

Ms. E. Wong

Ms. N. Wong



## Science learning involves:

- Knowing and doing
- Recognizing the relevance of science to our own lives and to society
- Setting a solid foundation and a passion for future learning

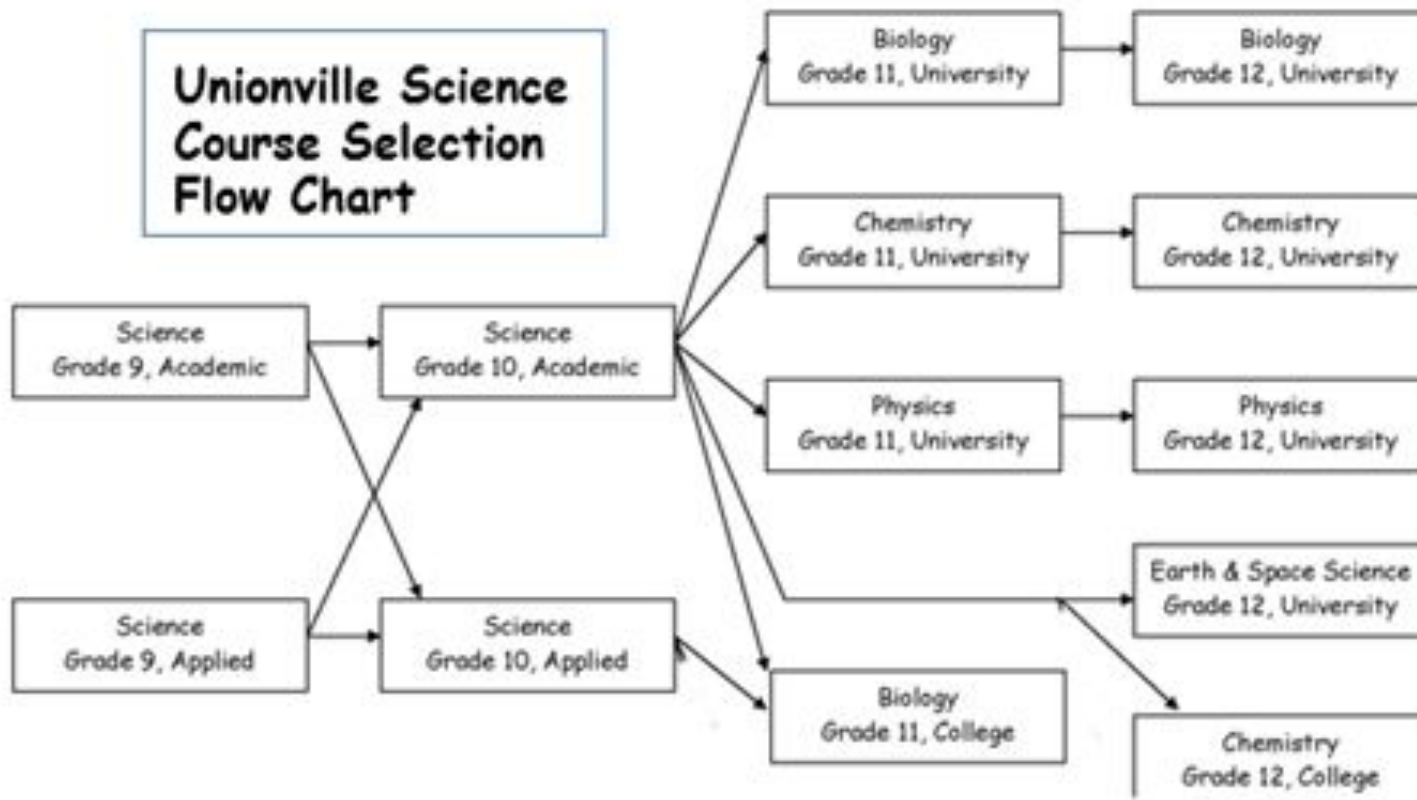


**Hands-on Science!**





# Unionville Science Course Selection Flow Chart





## Extra Help

- Individual help during teacher's lunch, before and after school (virtually)
- Structured group review e.g. before a unit test (virtually)
- Peer tutoring coordinated through our Guidance department (virtually)

# CASSINI - HUYGENS

## 1997 - 2017

1997 OCT 15 LAUNCH FROM CAPE CANAVERAL AIR FORCE STATION	1998 MAY 15 FIRST FLIGHT OF VEGA-B	1999 JUNE 10 SECOND FLIGHT OF VEGA-B	2000 MAY 15 JUPITER FLIGHT WITH GALILEO	2004 JULY 16 ARRIVAL AT SATURN	2004 MAY 24 HUYGENS RELEASED TOWARDS TITAN	2005 JULY 1 HUYGENS ARRIVES AT TITAN	2005 JULY 1 HUYGENS PLUNGES DOWN ON ENCALADUS	2009 JULY 1 EQUINOX COMPLETES SOLAR SWEEP	2010 SEP 15 SOLAR SWEEP COMPLETES SOLAR SWEEP	2014 MAY 15 SIGNALING THE END OF THE MISSION	2017 SEP 15 END OF MISSION PLUNGE INTO SATURN
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### MISSION OBJECTIVES

#### - NOMINAL MISSION -

THE PRIMARY MISSION SUBSIDIZED BY THE ESA, NASA, AND ASI TO ANALYZE SATURN, ITS RINGS, AND TITAN - SATURN'S LARGEST MOON

- OBSERVE THE INTERACTION BETWEEN THE RING AND THE MOON
- INVESTIGATE HOW THE MAGNETOSPHERE AND RINGS ARE AFFECTED BY SATURN'S SATellites
- DETERMINE THE NATURE AND ORIGIN OF DARK MATERIAL ON LAPETUS'S LEADING HEMISPHERE
- SEARCH FOR NEW MOONS WITHIN THE RINGS
- STUDY 3-DIMENSIONAL STRUCTURE AND DYNAMIC BEHAVIOUR OF SATURN'S MAGNETOSPHERE
- MEASURE DYNAMIC BEHAVIOUR AT CLOUD LEVELS
- DETERMINE COMPOSITION AND INTERNAL STRUCTURE OF SATellites



AN IMAGE OF SATURN FROM CASSINI

#### HUYGENS

- DETERMINE IF TITAN HAS LAPPED ATMOSPHERE IS AN EMERGENCY SOURCE TOWARDS SATURN'S MAGNETOSPHERE
- DETERMINE THE COMPOSITION OF TITAN'S ATMOSPHERE AND SURFACE
- OBSERVE TITAN'S TOPOGRAPHY AND PHYSICAL STATE

#### - EQUINOX MISSION -

FIRST MISSION EXTENSION LASTING FROM JULY 2008 - 2010 TO STUDY MORE FROM THE SATURNIAN SYSTEM FROM ITS ORBITAL POSITION

- OBSERVE AND STUDY SEASONAL CHANGES IN TITAN AND SATURN'S ATMOSPHERE
- DETERMINE IF SHEA CONTAINS ITS OWN RING SYSTEM
- STUDY TWO OF SATURN'S MOONS LONGER AND IN MORE DETAIL (TITAN AND ENCALADUS)
- STUDY NEW REGIONS OF SATURN'S MAGNETOSPHERE
- DETERMINE IF ENCALADUS HOLDS A SUBSURFACE OCEAN
- USE THE 'EQUINOX POSITION' TO VIEW MICROPROPERTIES OF RING STRUCTURE

#### - SOLSTICE MISSION -

SECOND EXTENSION SPANNING FROM SEPT. 2010 - 2017. THIS ENABLES FULL SEASONAL OBSERVATION

### ACCOMPLISHMENTS

- HUYGENS PROBE MAKES FIRST LANDING ON A MOON OUTSIDE THE SOLAR SYSTEM (TITAN)
- CASSINI COMPLETES FIRST FULL IN-DEPTH STUDY AND REVEALS RING ORBIT
- ORYXOLIC AC AND LIQUID WATER WERE DISCOVERED ON ENCALADUS
- DISCOVERED PALLEN, METHANE AND ARGON IN THE SMALLEST KNOWN MOON OF SATURN
- NEW 7 MOONS WERE DISCOVERED
- SATURN'S RINGS REVEALED TO BE AN ACTIVE ENVIRONMENT FOR WHERE PLANETS CAN FORM
- TITAN REVEALED TO HAVE AN EARTH-LIKE TERRAIN WITH OCEAN, LAKES AND SEAS

# Science Projects



#### GIOVANNI CASSINI

THE NAME 'CASSINI' IS ASSOCIATED WITH THE DISCOVERY OF SATURN'S RINGS AND THE DISCOVERY OF THE MOON ENCALADUS. HE WAS ALSO A COMMISSIONER OF THE MISSION 'CASSINI' TO THE SATURNIAN SYSTEM DISCOVERING TITAN'S RING.



#### CHRISTIAAN HUYGENS

THE 'HUYGENS' NAME DERIVES FROM THE ASTRONOMER HUYGENS WHO WAS ALSO A COMMISSIONER OF THE MISSION 'CASSINI' TO THE SATURNIAN SYSTEM DISCOVERING TITAN'S RING.



A FALSE-COLOR COMPOSITE IMAGE OF SATURN SHOWS AURORA EXTENDING 600 MILES FROM THE SOUTH POLE

### THE CASSINI SPACECRAFT



THE HUYGENS PROBE

### EQUIPEMENT



- LAUNCH CARRIER: SPANISH CENTAUR
- LAUNCH SITE: CAPE CANAVERAL AIR FORCE STATION SLC-40
- LAUNCH MASS: 5750 KG (12650 LB)
- DRY MASS: 2813 KG (6200 LB)
- CASSINI ORBITER MASS: 2305 KG
- HUYGENS PROBE MASS: 360 KG

#### INSTRUMENTS

- CASSINI PLASMA SPECTROMETER (CAPS)
- COMPOSITE INFRARED SPECTROMETER (CIRS)
- COSMIC DUST ANALYSER (CDA)



A FALSE-COLOR IMAGE OF SATURN'S RINGS

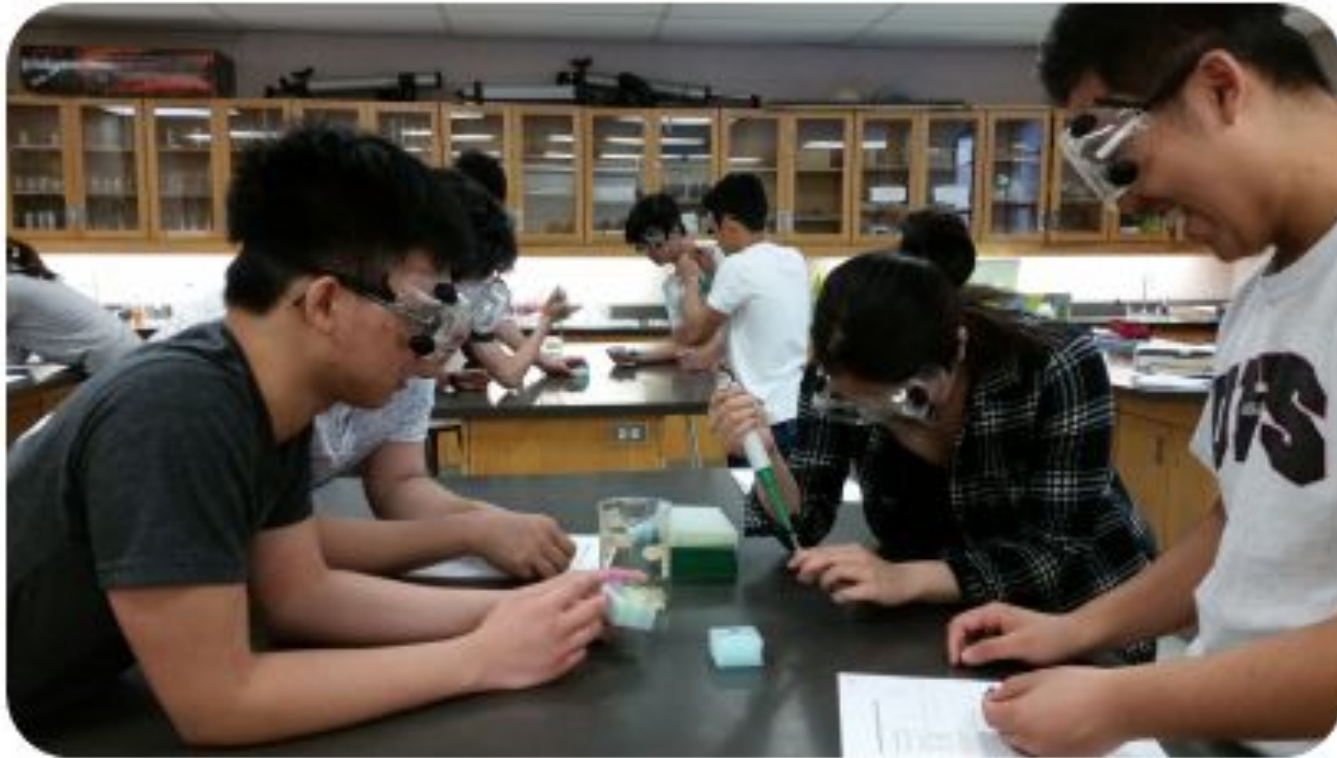


A FALSE-COLOR IMAGE OF SATURN'S ATMOSPHERE

### WORKS CITED

- CASSINI SPACECRAFT. NASA. 2004. URL: <http://www.nasa.gov/cassini>
- HUYGENS PROBE. ESA. 2004. URL: <http://www.esa.int/Huygens>
- THE SATURNIAN SYSTEM. NASA. 2004. URL: <http://www.nasa.gov/saturn>
- THE RINGS OF SATURN. NASA. 2004. URL: <http://www.nasa.gov/rings>
- TITAN. NASA. 2004. URL: <http://www.nasa.gov/titan>
- ENCALADUS. NASA. 2004. URL: <http://www.nasa.gov/encaladus>
- APOLLO 17. NASA. 2004. URL: <http://www.nasa.gov/apollo17>
- THE MOON. NASA. 2004. URL: <http://www.nasa.gov/moon>
- THE EARTH. NASA. 2004. URL: <http://www.nasa.gov/earth>
- THE SOLAR SYSTEM. NASA. 2004. URL: <http://www.nasa.gov/solarsystem>

# Science Club



Budding scientists meet Wednesdays after school bi-weekly to have fun learning and investigating. Students choose their activities and our senior members help them understand the science behind it all!

# Science Contests

Name	Grade and Discipline	Institution	Date	Cost (per student)
Michael Smith Science Challenge	Grades 9 and 10	U. of British Columbia	February	\$6.00
Avogadro Exam	Grade 11 Chemistry	U. of Waterloo	May	\$3.50
Chem-13 News Exam	Grade 12 Chemistry	U. of Waterloo	May	\$3.50
National Biology Competition	Grade 12 Biology	U. of Toronto	April	\$7.00
Science Olympics	Grades 9-12 Biology, Chemistry and Physics	York Region District School Board	May	FREE

# STEM Opportunities

- Oct. 24<sup>th</sup> – York University Girls – Explore Science, interactive hands-on biology, chemistry, physics, geology, and computer science
  - Ongoing – virtual ensembles – collaborative between music and STEM grade 10
  - Nov. 4<sup>th</sup> – University of Waterloo's Perimeter Institute, Dr. Catherine Beauchemin – A Physicist's Adventures in Virology
  - Feb. 25<sup>th</sup> – Markham Stouffville Hospital, Dr. Timothy Cheang – Surgical Practice and STEM in Healthcare
  - March 25<sup>th</sup> – Western University's Robarts Research Institute, Dr. Rob Hegele and Dr. Luciano Sposato – The Fire Within: COVID-19 and Vascular Health
- ...and more!







## **Art Kits 2020**

Art kits were provided to all student free of charge

## **Atrium & Gallery**

New track lighting system

Patch and paint displays

## **Visual Arts Selection Process 2020 - Overview**

Due to COVID a new selection process was developed with equity and safety in mind

## **Community Projects During COVID - Overview**

Seven Grandfather Teachings Sculptures – Unveiling June 21<sup>st</sup> 2022

Main Street Unionville Murals – developed to increase foot traffic to local business

Thank You Cards – Celebrating frontline workers and essential service workers

Main Street Unionville Street Light Banners – Celebrate unique locations/destination on Main Street

Unionville

Anthology (*A Snapshot in Time*) Combination of writing and visual art to capture student voice during the pandemic

## **Next Steps**

Install new Warden entrance mural

Upgrade computer lab 209

Continue to partner with Indigenous Artists, Elders and Knowledge Keepers

Continue to develop an anti-black and anti-oppressive framework



## Art Kits

Art kits were prepared for all students providing safety and flexibility as we entered the unknown as school began in 2020.



## School Gallery

The numerous lockdowns provided the opportunity to upgrade the school's gallery space.





## Visual Arts Selection Process 2020

Applicants were asked to create a work of art based upon on of the following prompts:


*Fragmentation, Transformation, Identity, Threshold*

**Task A:** Capture you creative process

**Task B:** The artwork

**Task C:** Reflect upon the outcome by answering the five questions. The applicant's response can be formatted in one of two ways, as a written or video

1. How does the artwork relate/connect to the prompt?
2. Describe your creative process within the context of this challenge.
3. What tools, materials and techniques did you use in your exploration of the prompt and in the creation of the artwork?
4. What changes would you make to your process?
5. What changes would you make to your artwork?



## Visual Arts Selection Process 2020 – Last Year’s Adjudication Team

Four Arts Unionville Visual Arts teachers are each paired with a professional artist. Each team of two adjudicators independently evaluates each e-portfolio. Those scores are added together and ranked.

**Dorsey James:** Wood sculptor and former high school visual arts teacher - retired in 2007 from MDHS  
Education: York University

**Donald Chrétien:** Indigenous artist (primarily painting)  
Education: Sheridan College (Illustration)  
OCA (Ontario College of Art)  
Web: <http://donaldchretien.com/>

**Tessa Shank:** Indigenous artist (multimedia) - Gold Smith  
Education: OCAD U (Ontario College of Art and Design University)

**Melanie Kidd** - Glass Artist  
Glasstronomy Studios  
Web: <http://www.glasstronomystudios.ca>

## Community Projects

Aaniin Community Centre – Anwebi Aki (a place to rest and reflect)



Bison



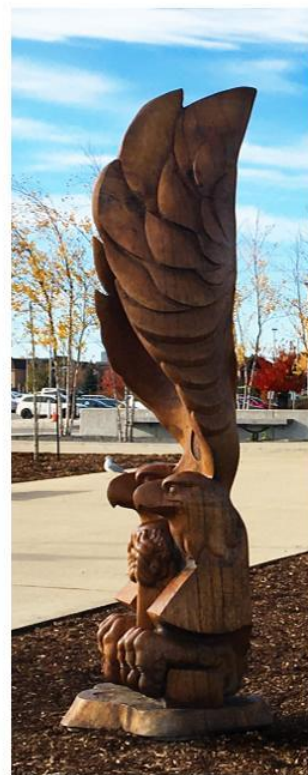
Raven



Beaver



Turtle



Eagle



Wolf



Bear

## Community Projects

Aaniin Community Centre – Anwebi Aki (a place to rest and reflect)



## Community Projects

Aaniin Community Centre – Seven Grandfather Teachings 2018





## Community Projects

Aaniin Community Centre – Seven Grandfather Teachings 2018



## Community Projects

### Unionville BIA – Instagrammable Murals



## Community Projects

### Unionville BIA – Instagrammable Murals



## Community Projects

### Unionville BIA – Instagramable Murals



## Community Projects

Thank You Cards – Shared on the Mayor's Twitter Account



## Community Projects

### Main Street Unionville Light Pole Banners



## Community Projects

### Anthology – A Snapshot in Time



*A Snapshot in Time* captures student voices and experiences during our second year learning and working during unprecedented times in Canadian education. Each submission moves us towards a greater understanding of how students see and interpret the world around us. They share personal narratives and art work about things that matter to them: school, their sense of self and the world around them, and give thanks to their community heroes – all captured here in a snapshot in time.

“Congratulations to all the students at Unionville High School for sharing their narratives and artwork.”  
— Waubgeshig Rice, author of *Moon of the Crusted Snow*

 Plume Press



## A Snapshot In Time

Unionville High School Anthology

Unionville High School • A Snapshot in Time




# Community Projects

## Anthology – A Snapshot in Time







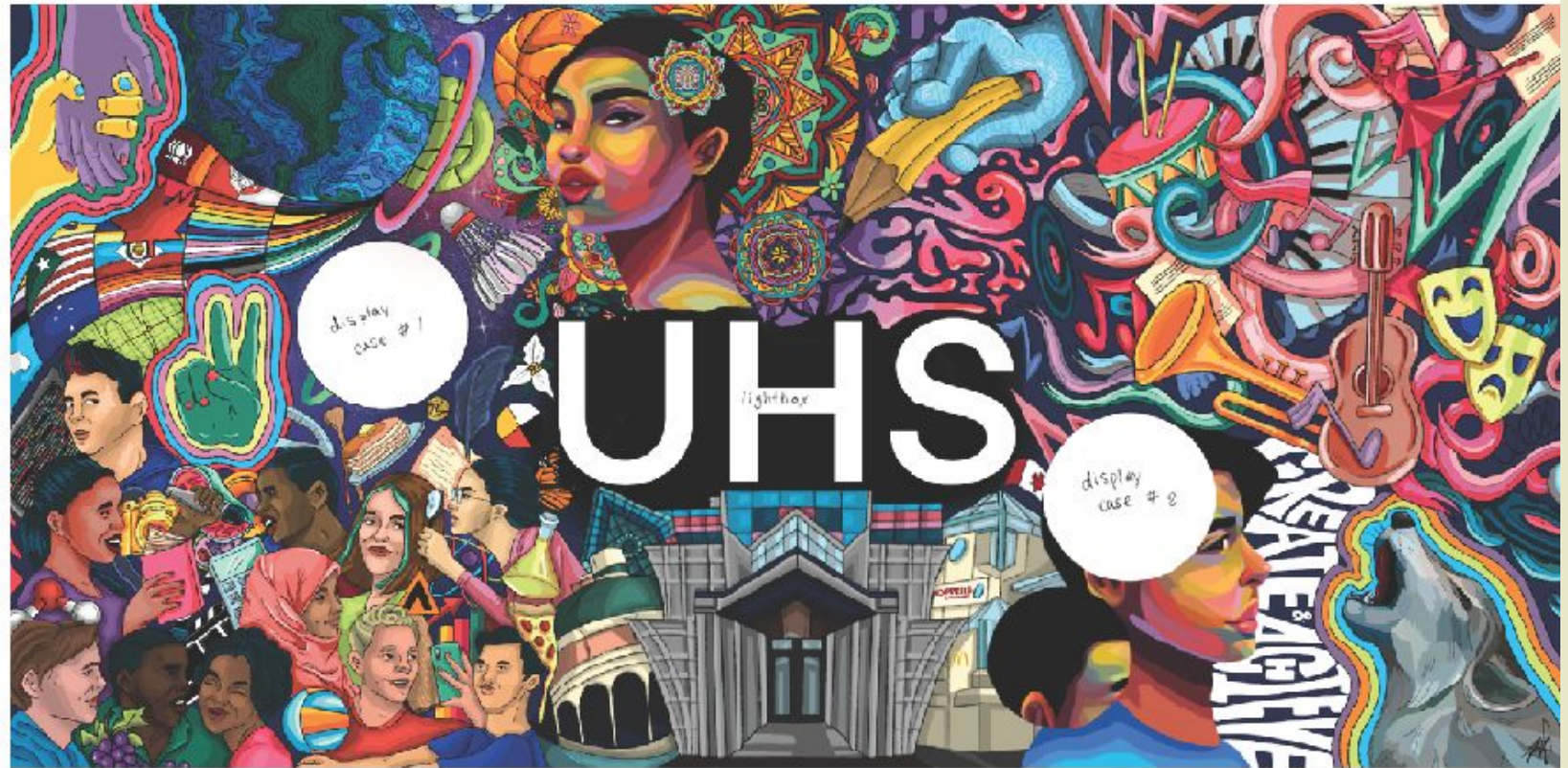
## Next Steps – Looking Forward

- Install new Warden entrance mural
- Upgrade computer lab 209
- Continue to partner with Indigenous Artists, Elders and Knowledge Keepers
  
- Continue to develop an anti-black and anti-oppressive framework
  1. Education – Read and study (teachers)
  2. Re-evaluate and question why, how and what we do through an equity lens
  3. Ask for assistance, create partnerships, co-create as a means to build technical skills and greater understanding / awareness
  4. Share this learning within the school and larger community
  - \* “Nothing about us, without us” Question who is visible and who is not and why.

# WARDEN WALL MURAL DESIGN

By Maddy Hutchison

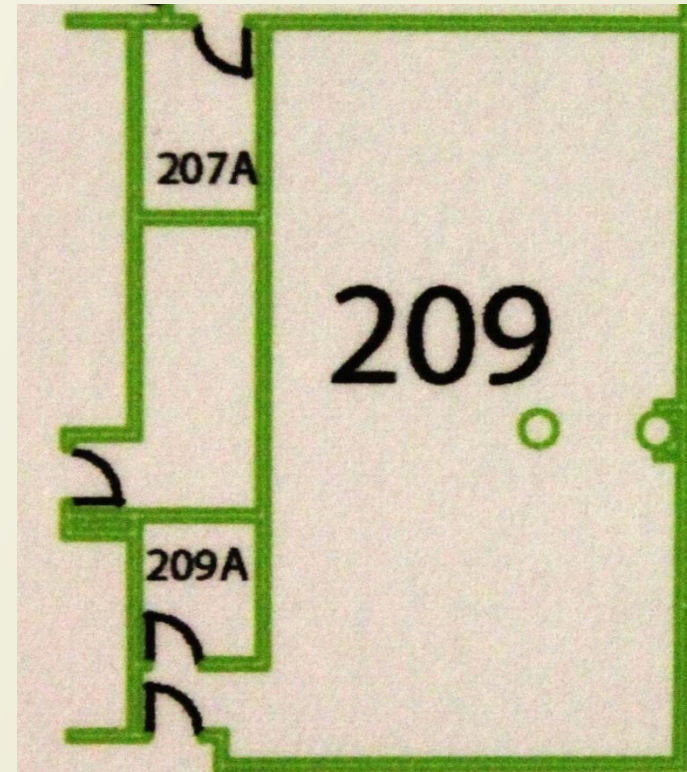
My identity as an artist is very detail-oriented and sticks to a "more is more" style. So, when brainstorming and mind mapping my thoughts and ideas for this mural design I knew that I had to capture every aspect of Unionville HS that I love. I made a huge list of all my favourite things about this school, the key characteristics and features and more. For this piece I wanted to include everything I know UHS has to offer and aspires to be. I sectioned off my canvas into a few different sectors to organize all of my ideas to include all of my ideas without it being too chaotic.



The main features of my design integrated into the vinyl wrap are two display cases and LED lightboxes of the letters UHS (located the centre). My piece features the arts programs (dance, drama, music and visual arts), our school slogan (create and achieve) and mascot (wolf), the diverse community at UHS, academics, athletics and more.

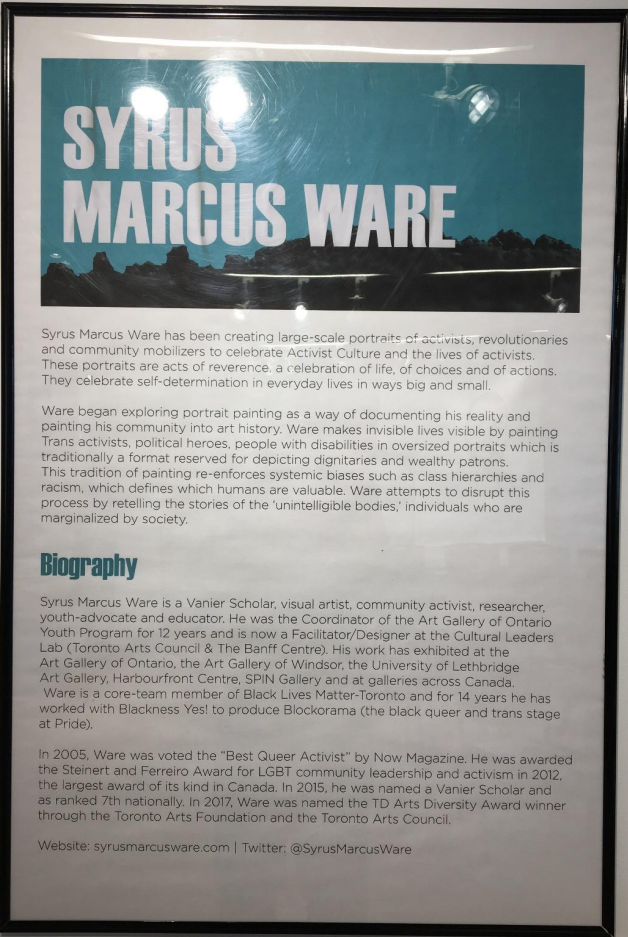
## Upgrading Computer lab 209

Computer lab requires a redesign to increase its usability / function for both analogue and digital technologies like photography, 3D scanning, 3D design and animation – create a space worthy of our student's talent and creativity to continue and expand upon the work we are doing.



# Connecting in and through the arts

## Images of Syrus Marcus Ware's drawing exhibition



**SYRUS  
MARCUS WARE**

Syrus Marcus Ware has been creating large-scale portraits of activists, revolutionaries and community mobilizers to celebrate Activist Culture and the lives of activists. These portraits are acts of reverence, a celebration of life, of choices and of actions. They celebrate self-determination in everyday lives in ways big and small.

Ware began exploring portrait painting as a way of documenting his reality and painting his community into art history. Ware makes invisible lives visible by painting Trans activists, political heroes, people with disabilities in oversized portraits which is traditionally a format reserved for depicting dignitaries and wealthy patrons. This tradition of painting re-enforces systemic biases such as class hierarchies and racism, which defines which humans are valuable. Ware attempts to disrupt this process by retelling the stories of the 'unintelligible bodies,' individuals who are marginalized by society.

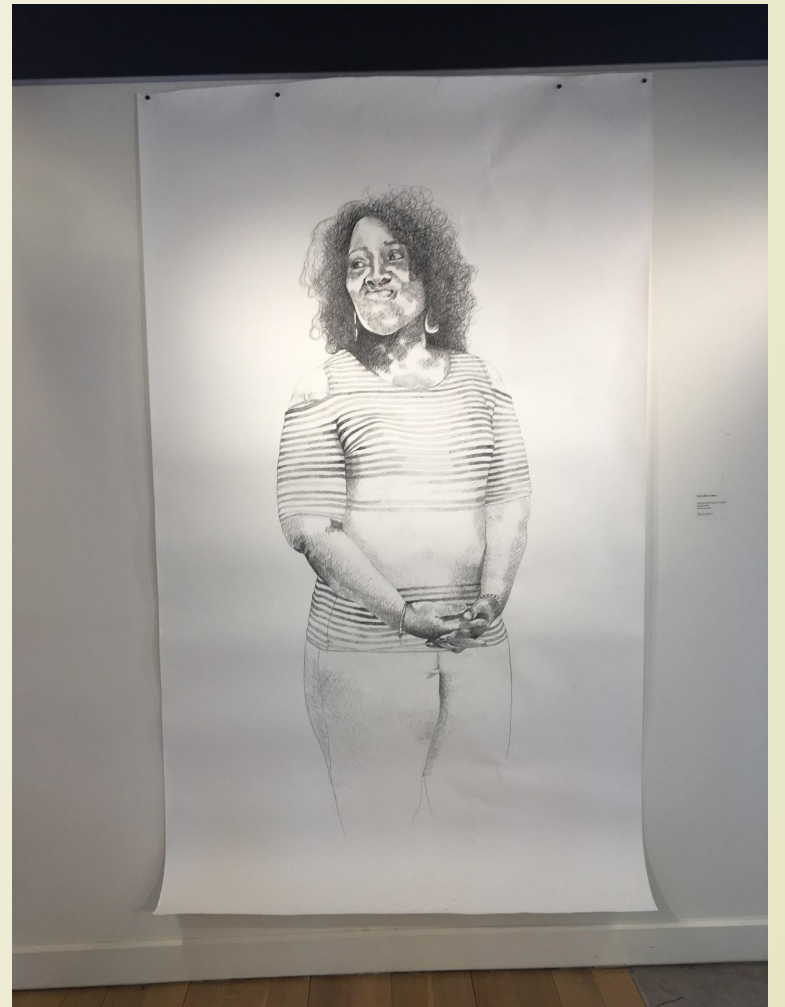
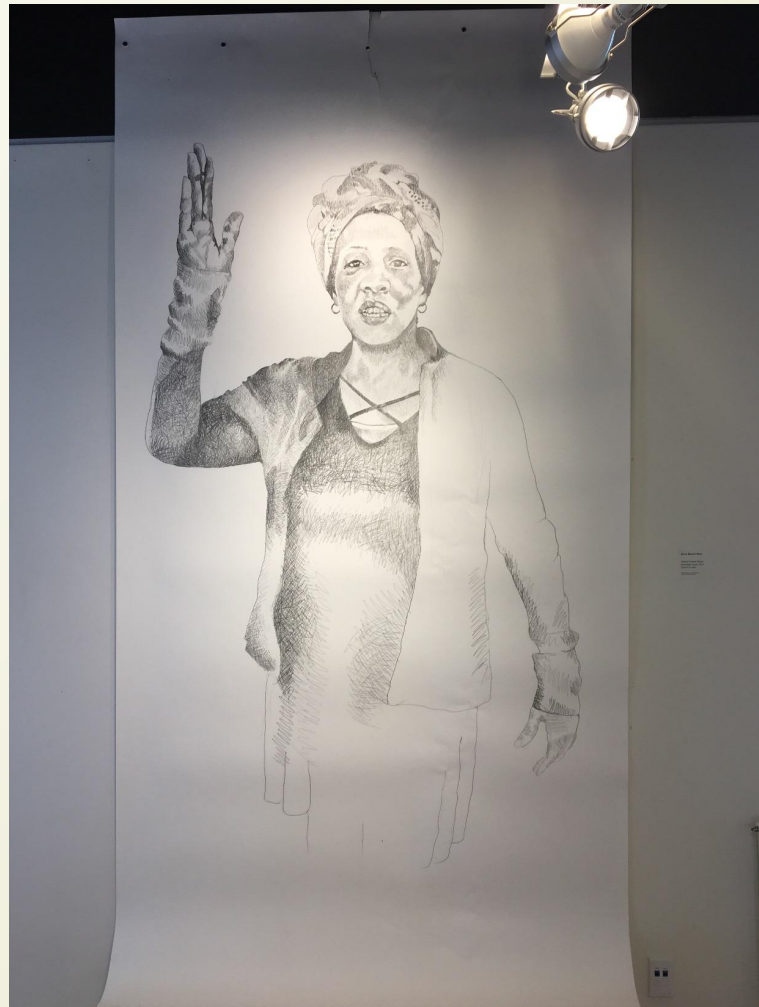
**Biography**

Syrus Marcus Ware is a Vanier Scholar, visual artist, community activist, researcher, youth-advocate and educator. He was the Coordinator of the Art Gallery of Ontario Youth Program for 12 years and is now a Facilitator/Designer at the Cultural Leaders Lab (Toronto Arts Council & The Banff Centre). His work has exhibited at the Art Gallery of Ontario, the Art Gallery of Windsor, the University of Lethbridge Art Gallery, Harbourfront Centre, SPIN Gallery and at galleries across Canada.

Ware is a core-team member of Black Lives Matter-Toronto and for 14 years he has worked with Blackness Yes! to produce Blockorama (the black queer and trans stage at Pride).

In 2005, Ware was voted the "Best Queer Activist" by Now Magazine. He was awarded the Steinert and Ferreiro Award for LGBT community leadership and activism in 2012, the largest award of its kind in Canada. In 2015, he was named a Vanier Scholar and as ranked 7th nationally. In 2017, Ware was named the TD Arts Diversity Award winner through the Toronto Arts Foundation and the Toronto Arts Council.

Website: [syrusmarcusware.com](http://syrusmarcusware.com) | Twitter: @SyrusMarcusWare



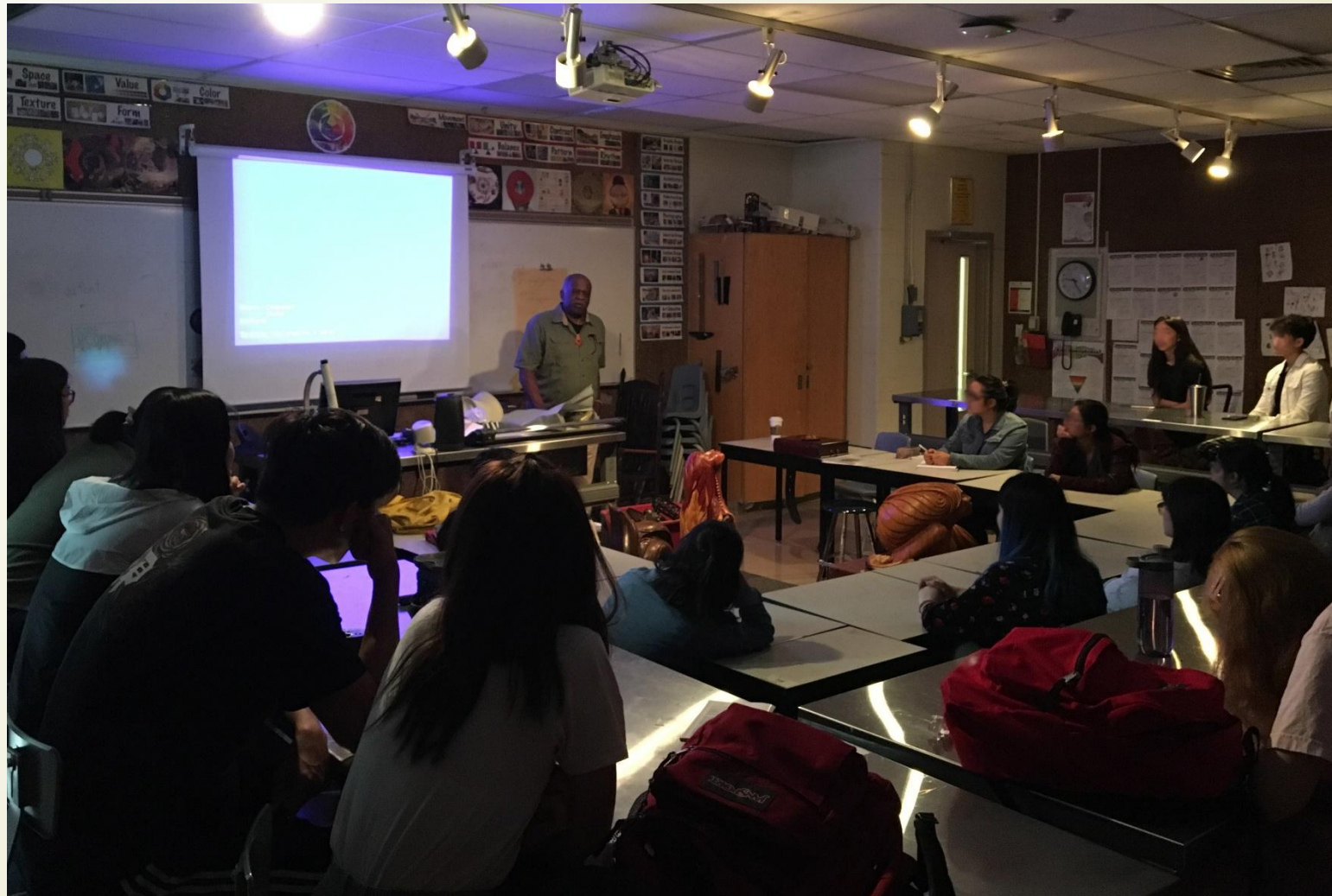
## Connecting in and through the arts



Inspired by Syrus Marcus Ware's drawings and artistic practice grade 9 AU students created 4' by 6' pencil portraits of 'change makers' who advocate for human rights and equity.



## Guest Artists - Prior to COVID

Dorsey James sharing his artistic process with grade 9 students





Thank you for supporting the  
Arts Program at UHS

# Upcoming School Council Meetings

Monday, January 24, 2022

Monday, February 28, 2022

Monday, April 30, 2022