

South Nelson Elementary Innovation and Collaboration ADST



Don't ever lose your sense of wonder!!

Innovation and Collaboration: ADST

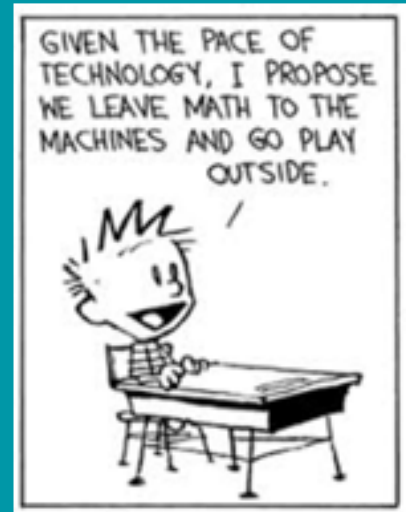
Purpose:

- ... engage students, teachers, family of schools, and community in hands-on science activities.
- ... learn from each other as we explore new areas of technology and the design process.
- ... share our learning experiences



We have learned:

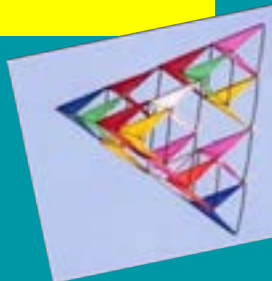
- ... Everyone loves to work with new technology; sometimes it's not easy.
- ... The cardboard box is an amazing, cheap learning tool.
- ... Give a kid opportunity, support, space and time to be creative amazing things can happen.



LV Rogers Secondary



LV Rogers grade 12 Math students introduced our class to iterations and Sierpinski's triangles. We built some together and then joined in the great hands-on math and science festival at LV, hosted by the Grade 12 students. Sierpinski showed up over and over again! We are now building tetrahedral kites with mixed classes at our school. Sierpinski strikes again!



Trafalgar Middle School

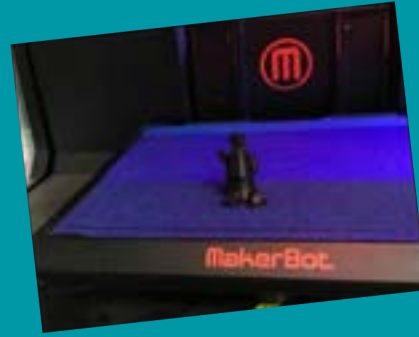


Trafalgar Middle School invited us for a design session. Groups were asked to design solutions to everyday problems, using the same materials. Students were encouraged to follow the design process.

Design Process and “Makey-Makey” @ Trafalgar Middle School



Nelson Tech Club



NTC has been meeting every Wednesday evening for the past six years.

Here anyone can explore technology in digital arts, 3-D printing, woodworking, prototyping, robotics, and more!

Our students got to use "Augmented Reality" tech which was very exciting; 3-D pens, and design and print 3-d objects!

Thank you, Brad!!

Innovative Learning Team



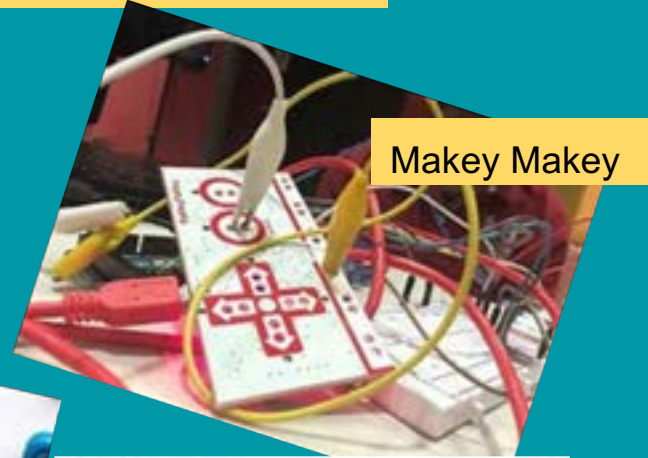
SD8 created an "Innovative Learning Service Team". These positions were created to assist classroom teachers with innovative teaching practices. Our class took full advantage of their expertise in Tech and also in French resources: Mardi Gras.



This service team offered after school sessions for teachers on: "Get with the Programming", an opportunity to explore computational thinking and programming tools.



Classroom ADST in Action: Some of the tech tools we introduced:



Makey Makey



SPHERO



Make-Do: a cardboard construction system for the 21st century!!



ADST in Action



We created "Robotics" Journals so students could record their understanding.



ADST in Action



Share it out, review the design process



Pilot and co-pilot



Team Work

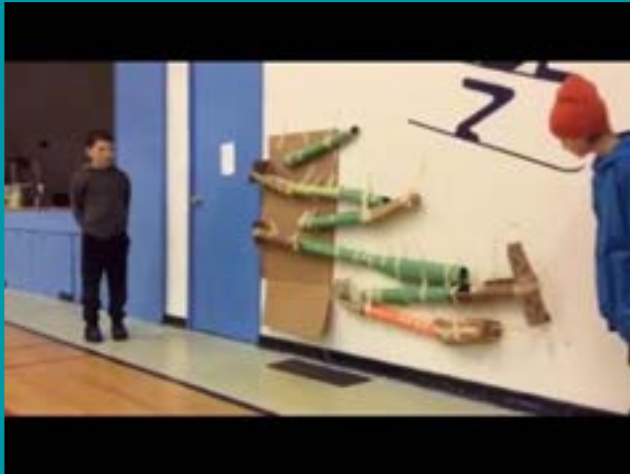


Nelson Police demonstrating their "traffic drone".



Stationary Sphero programs

Cardboard Institute of Technology : CIT



CIT



Coding

Drag and drop coding Sphero



Drag and drop coding: Scratchjr



Simple Machine Study: Automata



Classroom ADST: the applied pie part



Real
Live
Pie!!!

16 of them!!

Kahoot: Make Learning Awesome!!



Kahoot.it

Resources

Cubelets <https://www.modrobotics.com/cubelets/>

Sphero <https://edu.sphero.com/cwists/category>

Makey-Makey <https://makeymakey.com/apps/>

Littlebits <https://www.littlebits.com/>

Web based sites:

Apps:

Programming

CS Unplugged <https://csunplugged.org/en/>

Beebot / Bluebot

Tinkercad www.tinkercad.com

The Foos / Scratchjr

Hour of Code [https://hour ofcode.com/ca](https://hourofcode.com/ca)

Hopscotch

Scratchjr <https://www.scratchjr.org/>

Green Screen (filming)