

MEET

MAKERS
MAKING
CHANGE

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*Students using their
skills to make positive
change in the world
around them*

BRIAN CAMPBELL - MAKERS MAKING
CHANGE CHAPTER PRESIDENT

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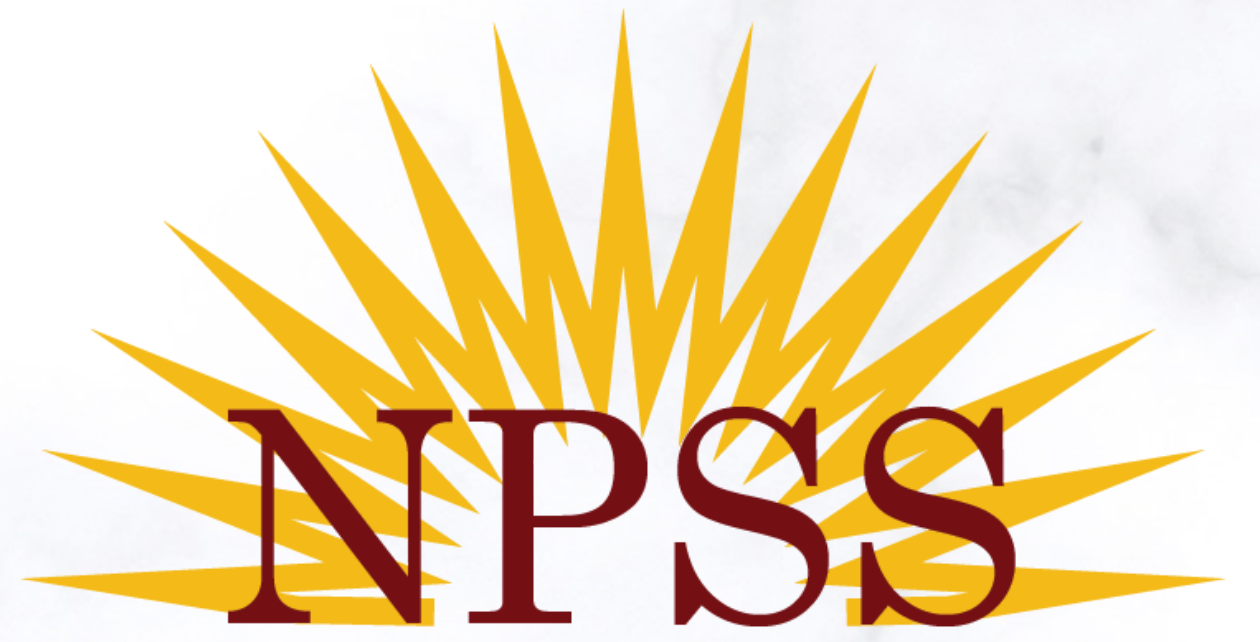


School District 60: Peace River North

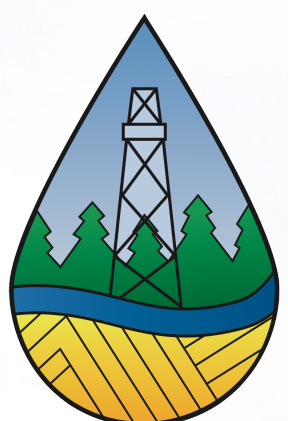
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ASSISTIVE TECHNOLOGY: MAKERS MAKING CHANGE



North Peace Secondary students in Mrs. Andrews' Media Design 11 class spent a month learning about 3D printing technology and the basics of creating 3D models to print. Students learned about assistive devices used by people with mobility issues, and the expense of many of the items needed for daily use. Mrs. Andrews introduced the students to 'Makers Making Change', a BC based organization whose mission is to connect people with disabilities to volunteer makers. The students connected with people from across North America to print assistive devices for people in need. Students printed pencil and utensil holders, reading bars, a wheelchair mounted dog treat dispenser, bottle cap grip and a braille keyboard overlay.

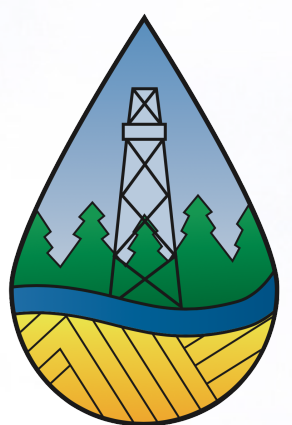


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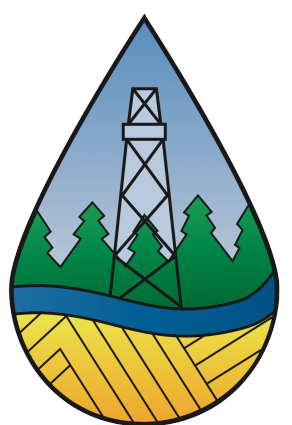
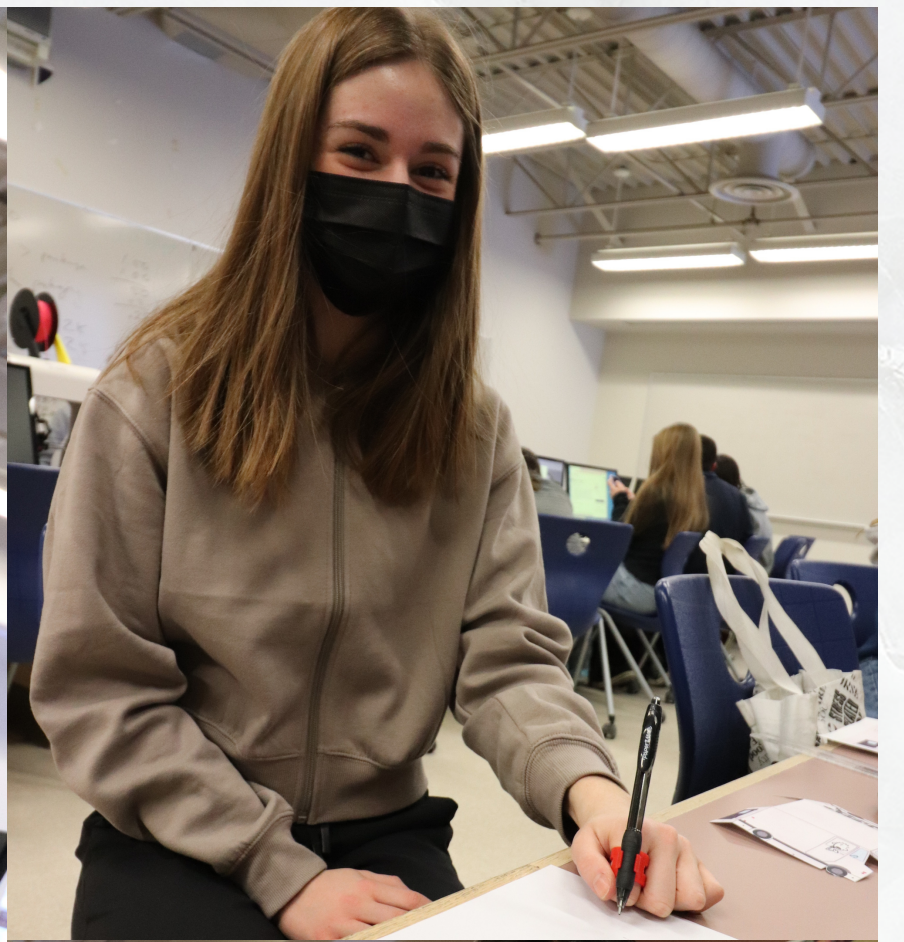
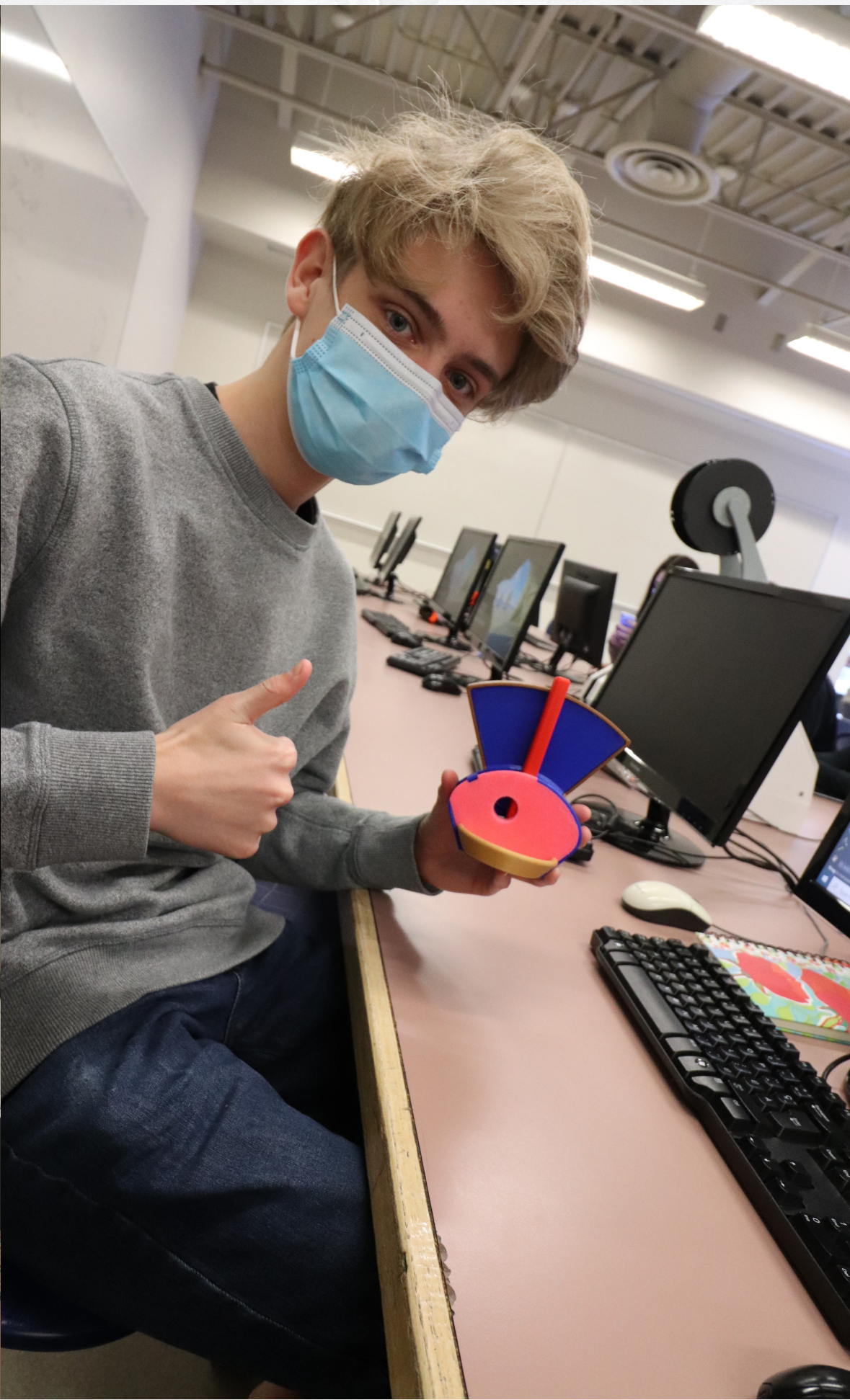
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The students were able to print so many devices as their computer lab had been recently equipped with new printers purchased through a donation by Shell Canada, bringing the total FDM (fused deposition modeling) printer total up to nine. Mrs. Andrews explained: "The students had about an 80% success rate. At times the machines became clogged, or the print would break loose from the heat bed. They even experienced a power outage, so had to restart their prints. This can be upsetting when a print takes over 5 hours". Students learned how to troubleshoot the machines and make changes to their prints when working with the machines and slicing software. By the end of the unit, many students feel they're now competent with 3D printing. A couple were hoping for printers for Christmas. "There's tons of stuff I can make for my friends and family, I could start a business!" says one student.



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In January 2020 the Neil Squire society and their Makers Making Change initiative, in collaboration with School District #60 held its first Light Touch Switch build-a-thon at Duncan Cran Elementary.

Students from North Peace Secondary School, especially those interested in engineering, design, and software programming or those who have an interest in a disability profession participated in this event. Working alongside maker mentors and Makers Making Change, students built assistive devices that were sent to people with limited use of their hands or fingers living in and around Fort St John.

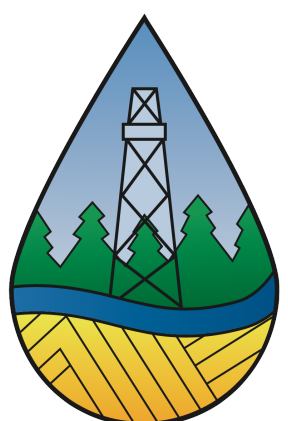


**Makers Making
Change**

A Neil Squire Program

For more info see

<https://makersmakingchange.com/>



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