



Coding Connections

Team Members:

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School District: Hastings Prince Edward DSB



What We Did

Identifying opportunities to integrate coding into cross-curricular programs to expose many students to coding. Specifically, Science and Math.



Learning Goals

To learn how to code using Scratch, Micro:bits and Makey Makey; create lessons and activities for science and math courses; and provide opportunities for teachers to integrate these activities into their daily practice.



Completed Activities

- Collected resources to learn block coding and line coding with Scratch, Micro-bit, and Makey-Makey.
- Introduced block coding to two cohorts of Grade 9 students in Geography and Mathematics using Scratch and Micro-bits.
- Introduced circuits and microprocessors to Grade 12 Science students using Makey-Makey.
- Participated in Coding Change program to learn how to code using Micro:bits and to get Micro:bits for the school.
- Participated in the Bring it Together 2021 conference.
- Introduced Scratch and Makey Makey to special needs students in our Community Integration Program.
- Hosted an afternoon workshop for science teachers to demonstrate the Class Plants activity.



How We Shared Our Learning With Others

Introduction to Micro:bits

<https://docs.google.com/presentation/d/1vTxWwPf4wRmaz-yM8-CMZw2WLHaLp5D3kGNjBx86ruY/edit?usp=sharing>

Class Plants with Micro:bits

<https://docs.google.com/document/d/10Hz0Fw6eGU3RR8LIWUk9hVowSF0udIP0hidyMQ5lvvgk/edit?usp=sharing>

<https://docs.google.com/presentation/d/1Wm8d3mZPiCwk5EKMzQv5SzqzxG-E2GcYfXRvydpGLuY/edit?usp=sharing>



How We Shared Our Learning With Others (continued)

Introduction to Coding in Math

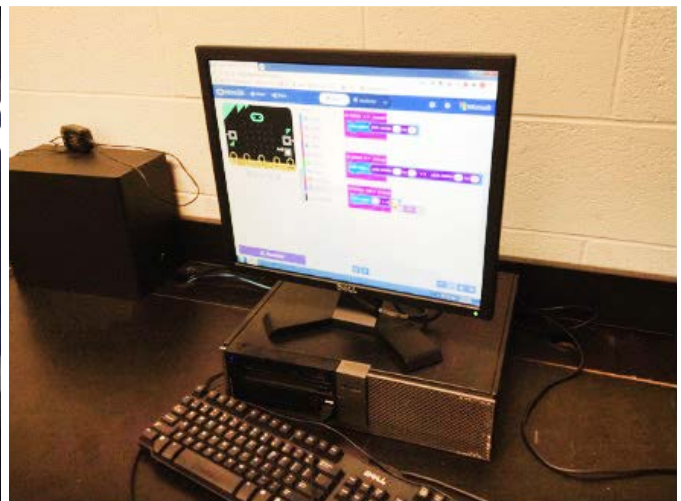
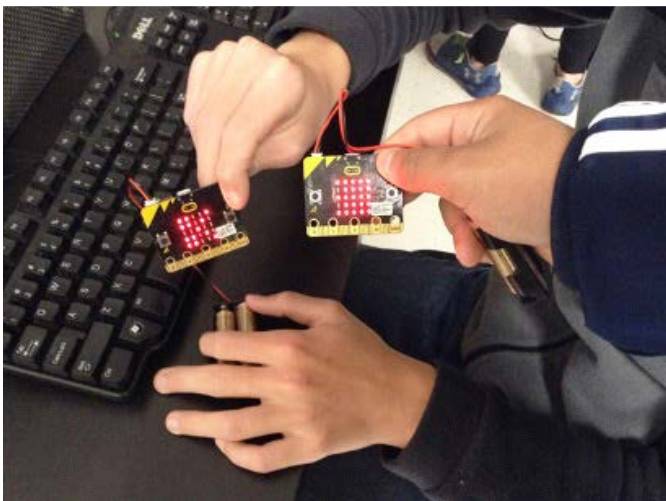
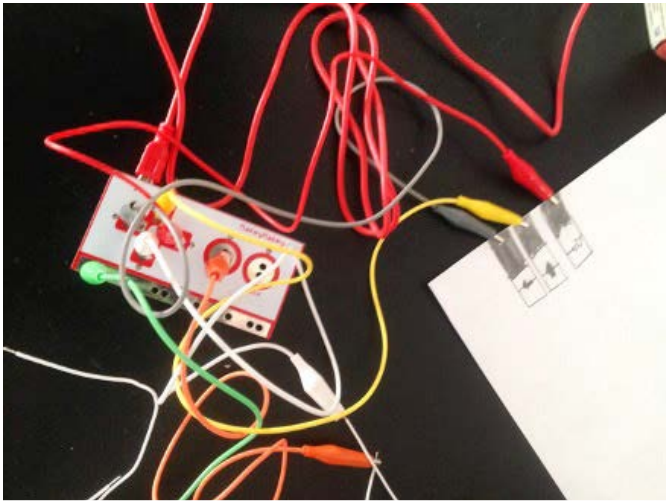
https://docs.google.com/presentation/d/1nPU5BjDk_dPwMm8sirvsMtl0X6JifiVrEWq40EYP_bs/edit?usp=sharing

Micro:bit Creating a Simple Calculator

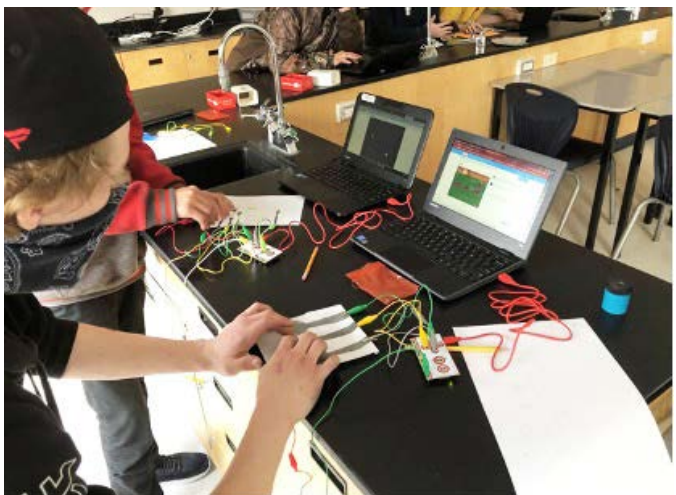
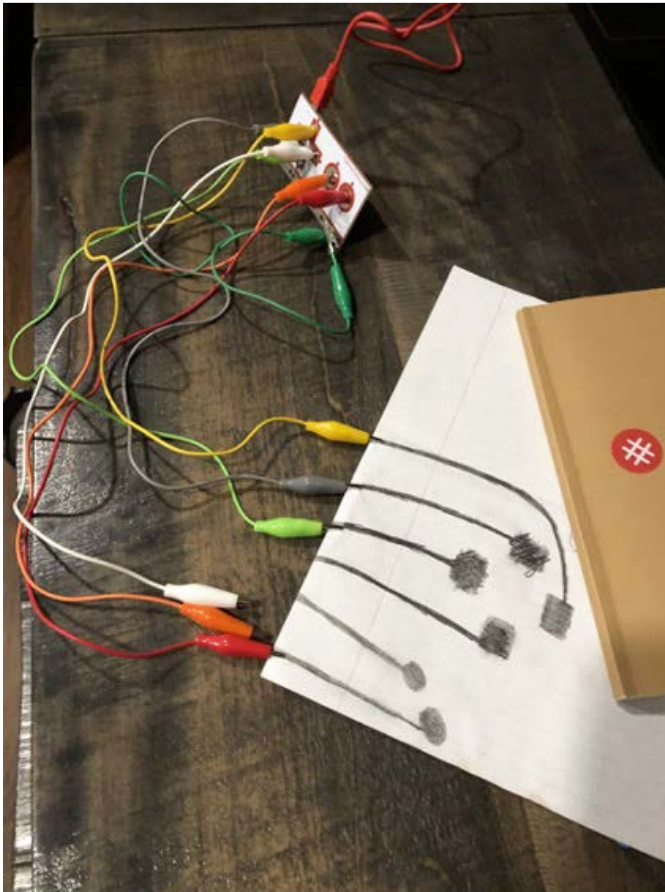
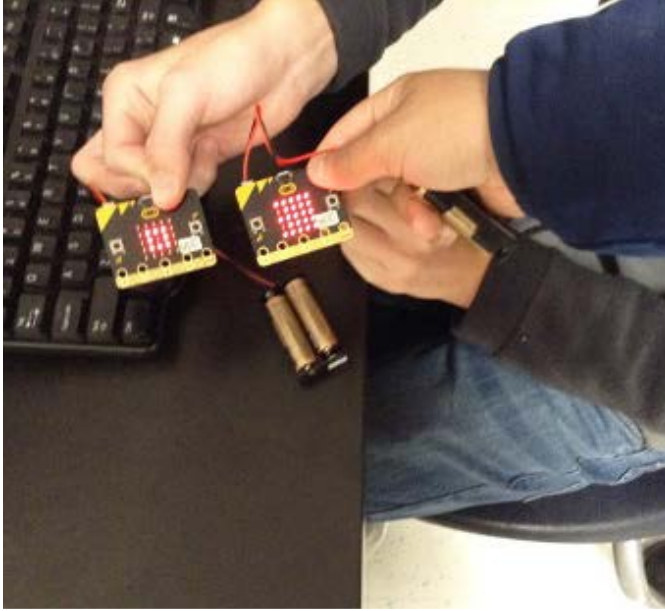
<https://docs.google.com/document/d/1Q-E1oUns5ABez20sY6a1znkyhupAmfKzuZclUSyqoXM/edit?usp=sharing>

Micro:bit Patterns and Relations Activity

https://docs.google.com/document/d/10yPC41pM54xviGu9pldrPqRVDX_ZMi2USMuTJ-PIJ9s/edit?usp=sharing



How We Shared Our Learning With Others (continued)



How We Shared Our Learning With Others (continued)

