****STEM MINDS &

ST MARY CES

**ROBOTICS 101**

WINTER 2019

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| **Location**: St Mary CES**When:** Tuesdays**Start Date**: Tuesday January 22**End Date**: Tuesday April 16**Time:** 12:00 – 1:00 pm**Cost:** $190 + HST**Grades:** K-2\*No class March 12Maximum class size: 24 students (first come first served registration)\*please note that a minimum of 10 students is required to run the program. STEM MINDS reserves the right to cancel a program and provide a full refund to registrants in the event of insufficient enrolment. |

STEM MINDS™ is pleased to propose **a 12 WEEK ROBOTICS 101 PROGRAM** every **TUESDAY** from **12:00 – 1:00** from **JANUARY 22 to APRIL 16** at **ST MARY CES**

Preparing kids for their future in the digital world is easy with Robotics 101! Take your coding skills to the next level as you explore awesome coding apps and learn to program the Beebot and Dash n Dot robots! Participants will work with their peers as they participate in problem-solving challenges, games, and activities all designed for our youngest learners. Don’t have any experience with robotics? That’s okay! Robotics 101 is a great way to get started! Get ready for your next steps into the world of robotics!

To register, please visit

| **Session Descriptions - Beginner** |
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| Session 1 | Introduction to Coding: Algorithms & Pseudocoding |
| Session 2 | Sequence Part 1  |
| Session 3 | Sequence Part 2 |
| Session 4 | Conditions Part 1 |
| Session 5 | Conditions Part 2  |
| Session 6 | Loops Part 1  |
| Session 7 | Loops Part 2 |
| Session 8 | Functions Part 1 |
| Session 9 | Functions Part 2 |
| Session 10 | Ultimate Coding Challenge |
| Session 11 | Final Project Prep |
| Session 12 | Final Project |

| **Session Descriptions - Intermediate** |
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| Session 1 | Programming Review & Advanced Pseudocoding |
| Session 2 | Advanced Coding with Lightbot |
| Session 3 | Intro to Dash n Dot: Path Part 1 |
| Session 4 | Path Part 2 |
| Session 5 | Movement & Drive |
| Session 6 | Control: Loops and Wait Part 1 |
| Session 7 | Control: Loops and Wait Part 2  |
| Session 8 | Look  |
| Session 9 | Lights |
| Session 10 | Sounds |
| Session 11 | Final Challenge Prep |
| Session 12 | Final Challenge |