THE STEAM PROJECT

CREATE 'N' CODE

MARS MISSION III: ROVER

Dear Families,

Welcome to The STEAM Project's **Create 'N' Code: Mars Mission III** Virtual Camp! We're looking forward to getting started with the program. Below you will find information about preparing for your course:

What's inside your kit:

- Cardboard wheels x4 (circle pieces) & shell
- 1x Micro:bit - inside a green box (you will also need the one from Part I)
- 1x Breakout Board - inside a black box
- Chassis base (wooden piece)
- Bag 1:
    - 3x F-F dupont wires
    - 2x AAA batteries & battery pack
    - 3x AA batteries & battery pack with M-F dupont soldered on
    - 2x yellow gear motors
    - 2x screws and nuts
    - Ultrasonic Sensor
- Bag 2:
    - 3D printed motor pins and motor axles
    - Full servo horn (small white plastic piece)
    - 3D printed holder for the ultrasonic sensor
    - Short wooden dowels
- Bag 3:
    - Small Wooden pieces
    - One wooden piece with a blue servo motor attached
- Tool kit with wood glue, popsicle sticks, double sided tape, and elastic bands

Hardware and Software Requirements:

- Any PC or Mac computer that can run Google Meets (with webcam, mic, and USB port)
    - iPads are not compatible. Chromebooks may experience technical difficulties.
- Link to software used: https://makecode.microbit.org/
    - Chrome is the recommended browser for uploading code onto the micro:bit

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Safety Information

- This product contains small and sharp parts. Do not swallow or scratch to avoid injury
- Some parts will rotate or move when they work. Do not touch them to avoid being bruised or scratched and to avoid damaging internal components
- Use the parts in the kit in accordance with each lesson. If you do not know how to use or wire a part, learn how to use it before connecting it to any source of power.
- Store the kit and all parts in a dry place away from direct sunlight
- Unplug and turn off all power when not in use

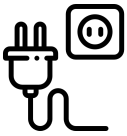
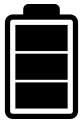
Class Rules

Before the first class...

• Sign up for the Google Classroom at least **one day before the first class.**
Your Classroom code is available through a PDF titled **"Household Confirmation Letter".**
The meeting links will be posted in the Classroom.

To prepare for class...



• Prepare a **clean workspace** for the projects
• Use a **newspaper** or something similar to keep the surface clean
• **Plug in** your device or make sure it's **fully charged** to avoid disconnections

During your class...


• **Arrive on time** - after 5 minutes, you may not be able to be added as the instructor may be busy
• For the first class, the instructors will spend time making sure everyone is comfortable and that the equipment is working. The instructors will be going through the kit with students to ensure that all components of the kit are there.

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• It is the family's responsibility to **double-check the kit on the first day of class** and notify our team about any missing parts, to ensure that there is enough time for replacement parts to be delivered.

• If pieces are lost and/or broken due to mishandling by the student, **replacement fees may apply.**

• Mute your microphone when you are not speaking to the class or instructor

• You can turn off your video if you are not sharing something with others

• Please use the chat only for relevant discussion

• Raise your hand to indicate to the instructor that you have a question

After Class

• Students can ask questions to their instructor, communicate with other students, receive updates, and links to online resources & bonus projects through the Google Classroom.

• If there is a planned absence, please notify us by emailing: virtual@thesteamproject.ca.

• For missed classes, resources will be available through Google Classroom

Sincerely,
The STEAM Project Family