



We help schools  
Build Capacity.  
Teach STEM Better.  
Enhance Learning.



## EXPLORING MARS WITH THE ULTIMATE

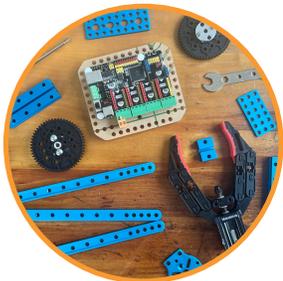
Bring an excitement for learning into your classroom with a comprehensive CS course designed to engage young minds with robotics and STEM.

### BUILD A MARS HABITAT

Go on a mission to colonize Mars using autonomous robots! The journey begins by constructing the Ultimate space vehicle, then designing and creating a martian environment ideal for building a colony. Throughout this course, students are immersed in real-world applications of STEM concepts through hands-on experiences that bring learning to life. With an emphasis on teamwork, creativity, and critical thinking, the Ultimate curriculum empowers the next generation of innovators.

#### STUDENTS WILL:

- **Build a robot** while learning about state of the art technology and sensors.
- **Learn to code** with Scratch at any skill level, on: Chromebook, Android, IOs, PC, or Mac.
- **Create** your own Mars landscape and colony using the Engineering Design Process.



## STEM Solutions for Busy Teachers



Save time in lesson prep with standards-aligned, easy to teach lessons created by teachers for teachers.



Gain helpful STEM and CS tips and techniques through live or virtual PD sessions with our experts.



Tailored for your timeframe: Camp, after-school, or in-class with up to 40 hours of hands-on activities.

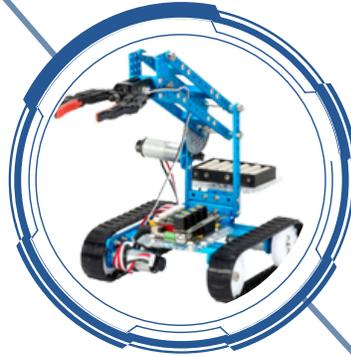


You can count on our support team for technical and lesson planning assistance when you need it.

# ADVANCED ROBOT TECHNOLOGY

Equipped with the latest tech, sensors, and parts; the Ultimate is designed for education.

- **Industrial grade aluminum alloy parts** built for years of classroom use
- An **Ultrasonic sensor** to calculate distances and avoid collisions
- **Infrared Sensor** to detect lines or nearby objects
- **Gyroscopic sensor** to navigate and stabilize in 3D space



- **Robotic arm** to grip, lift, and deliver objects in various terrains
- Assembly guides for **10 different robot designs**
- **Arduino** powered for easy programming with Scratch or C
- \* **Available: Rechargeable battery pack** that lasts for 4 hours of activities

## TURN-KEY FOR ALL LEARNERS AND EDUCATORS\*

Start easily with a **STEM Lab Pack** that includes everything needed for success:



**World-class digital Curriculum** packed with 5E lessons, slide decks, videos, activities, handouts, assessments.



**Knowledgeable PD** and dependable support services.



**Reliable STEM products** that last several years.



**Fun Software Apps** for Coding on almost any device with easy to follow step-by-step instructions.



\*Also available: Up to 3 **College credits and certificates** from our partnership with **UC San Diego**

EXTENDED STUDIES

## STANDARDS-ALIGNED CURRICULUM



### Science

Apply physical science concepts, engage in scientific inquiry, and perform data analysis.



### Technology

Create and test programs in projects combining hardware and software with variables, loops, and conditionals.



### Engineering

Collaborate, communicate, and create innovative designs using the Engineering Design Process.



### Mathematics

Reason abstractly while solving multi-step real world problems and algorithms.



Ask our STEM Specialists for an implementation plan today!



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