



Fall STEM Program

### Learn to build, design and code!

- Starting: Sept 19th (9 Week Program)
- Thursdays: 2:30pm 3:30pm
- (Holidays on Oct 17, 31, & Nov 28)
- Parents invited to SHOWCASE on last day
- Registration: <u>www.roboticstem.com/sign-up/</u>

### Math-Science-Technolo

- Grades 3-4, 5-6
- Advanced classes for c
- Robotics Competitions in 2
- STEM based curriculum







\$69 FOR THE **ENTIRE PROGRAM** 

www.roboticstem.com



forever



# **STEM Pathway**







**Age 8-9** 

Advanced

**Age 8-9** 

### Engineering & technology. Building simple machines. Coding lessons include: direction, negatives, rotation, coordinates, shapes, animation costumes, switches, "logic" & sequences

## **Age 6-7**

### **Age 5-7**

#### Introductory

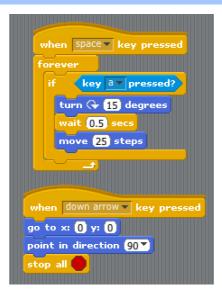
Introduction to STEM. Building models, Introduction to construction, colors, shapes, Wheels & motors. Environment, animals, technology and transport

#### Advanced

Exposure to programming and engineering. Design and build. Distance and tilt sensors. Lessons include motion, gear, belts, spin and balance, beats and rhythm

### Introductory

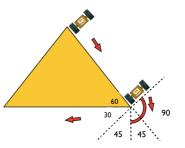
Designs, Observations, and interpretations. Introduction to coding and programming. Design your own programs and configure its behavior using motors, sensors and other electronics



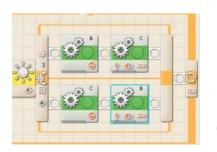


# **STEM Pathway**









**Age 10-12** 

### Age 10-11

### Introductory

Introduction to Mindstorm robots and micro-controllers. Problem solving and "hands on" application. Product design, Observations, interpretations, ratios & proportions. Programming, random number concepts and variables, servo motors, multiple sensors and electronics.

#### Advanced

Navigating autonomous robots with sensors (ultrasonic, sound, touch and light). Concepts include: making music with codes, light intensity, line counter and tracer, switches & loops, geometric shapes and programming on degrees, synchronizing multiple motors and fun obstacle courses