



STEM AFTERSCHOOL ACADEMY

Kindergarten through 2nd Grade

Tuesday, 4:00pm – 5:00pm



2017-2018 STEM Afterschool Clubs @ College Gardens ES

Robotics Line tracking / Remote Control Rovers

Tuesdays, 4:00pm – 5:00pm, September – November

- Explore the field of autonomous robotics while **build** and **take home** your very own autonomous robots.
- Learn about electrical circuit theory, electrical components, servo motors, photo-resistors, infrared sensors, and transmitters.
- Learn how remote control transmitters and radio receivers work
- Learn how gears and motors work
- Participate in fun Rover races, Disc shooting contests and team-based robotics challenges

❖ Robotics 101 (10 weeks)

❖ Sept: 19, 26, Oct: 3, 10, 17, 24, 31, Nov: 7, 14 & 21

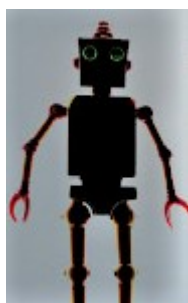
Building FM Radio & Circuits – Non Soldering

Tuesday, 4:00pm – 5:00pm, February – April

- Learn about electronic circuit components and integrated circuit such as resistors, capacitors, diodes, transistors, operational amplifiers, and timer circuit as they build several electronics gadgets from fan circuits to FM radios.
- Children will also partake in exciting circuit building contests.

• E-Lab 101: (10 weeks)

• Feb: 6, 13, 20, 27, Mar: 6, 20, Apr: 3, 10, 17 & 24



Where: CGES ES Classroom

How much: \$200/participant/Session (all materials included)

Contact: stemafterschool@gmail.com | 202-460-4250 | stemafterschoolacademy.com

To register, please contact us or visit: <http://www.stemafterschoolacademy.com/#!registration/c1ghi>



3rd Grade through 5th Grade

Tuesday, 4:00pm – 5:00pm

2017-2018 STEM Afterschool Clubs @ College Gardens ES

Robotics Line tracking / Coding (Programming)

Tuesdays, 4:00pm – 5:00pm, September – November

- Explore the field of autonomous robotics while **build and take home** your very own autonomous robots.
- Learn about electrical circuit theory, electrical components, programmable microcontroller interfacing, servo motors, photo-resistors, infrared sensors, transmitters, and soldering.
- Participate in team-based robotics challenges

❖ **Robotics 201 (10 weeks)**

❖ Sept: 19, 26, Oct: 3, 10, 17, 24, 31, Nov: 7, 14 & 21

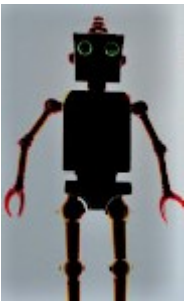
Building FM Radio & Circuits– Soldering

Tuesday, 4:00pm – 5:00pm, February – April

- Learn about electronic circuit components and integrated circuit such as resistors, capacitors, diodes, transistors, operational amplifiers, and timer circuit as they build several electronics gadgets from fan circuits to FM radios and soldering.
- Students will also partake in exciting circuit building contests.

• **E-Lab 201: (10 weeks)**

• Feb: 6, 13, 20, 27, Mar: 6, 20, Apr: 3, 10, 17 & 24



Where: CGES ES Classroom

How much: \$200/participant/Session (all materials included)

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