



# FREE Summer STEM Workshops

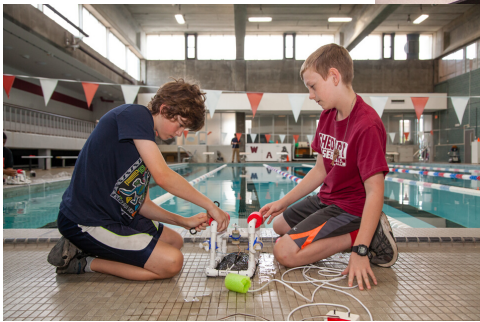
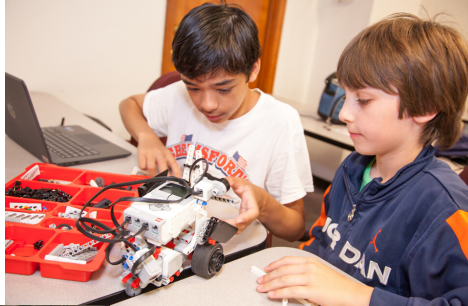
## OPEN TO ALL STUDENTS

### GRADES 5-12

### All workshops will be held virtually

Registration starting June 1st via <https://bit.ly/2zaLLE5>

Questions? Please contact [ideacamp@lowell.k12.ma.us](mailto:ideacamp@lowell.k12.ma.us) or [padams@lowell.k12.ma.us](mailto:padams@lowell.k12.ma.us)



## IDEA CAMP WORKSHOPS

### Crime Science (week 1 & 2, grade 6-8)

Solve crime with fingerprints, handwriting analysis, unknown powder, & pen samples!

### Spheros (week 2 & 3, grade 6-10)

Learn how to use code.org and program a Sphero (a spherical mini robot).

### Digital Music (week 1 & 2 grade 5-8)

Develop the skills to edit & compose multi-track sound files.

### Architecture (week 1 & 2, grade 7-10)

Develop skills to design, draw and build a 3D scale model of your dream home.

### Painting with Perspective (week 3, gr 5-10)

Focus on painting from two point landscape & still life perspectives.

### Microbits (week 1 & 2, grade 6 & 7)

Program Microbits to play games, use sensors, as well as be wireless transmitters.

### Cooking at Home (week 1, grades 5-8)

Explore the mysteries and chemistry of making food at home!

### Video Game Makers (week 1 & 2, gr 6-8)

Learn the basics of 2D video game design and programming.

### Mind Body Wellness (week 3, grades 5-8)

Practice and learn about the benefits of meditation, journaling, yoga, stretching and movement on the brain and body.

### Farm to Table (Got Dirt?) (week 3, grades 5-8)

Learn the science of food as they examine organic, GMO and preparation.

### Building RC programmable cars (week 1 & 2, grade 8-12)

Learn the basics of building and programming this robot to run an obstacle course you create.

### STEM Challenge Mash up (week 3, gr 5-7)

Try out challenges like a Shark tank escape, Paper Airplane Challenge & a popsicle bridge and more.

### Learn to Fly Drones (week 3, grades 9-10)

Learn the concepts of drone flight!

### Theater Kids (week 1-3, grades 5-8)

Students will explore acting, poetry, improv, and play-writing.

