

Camper's Name _____

School _____ Grade in 2022 _____

Parent's Name _____

Address _____

Parent Phone _____

Parent Email _____

Emergency contact (beside parent/guardian) _____

Emergency Contact Phone _____

Online Registration Available

[cpsanchor.com/what-we-do/
projects/stem-on-the-go/
stem-on-the-go-
summer-camp.html](http://cpsanchor.com/what-we-do/projects/stem-on-the-go/stem-on-the-go-summer-camp.html)

Please make checks payable to CPS Foundation.

Mail registration to:
CPS Summer Enrichment,
PO Box 947,
Columbus NE 68602-0947

Please select the grade-level your child will be going into the 2021-22 school year.

- ☐ Third Grade (\$25)
- ☐ Fourth Grade (\$25)
- ☐ Fifth Grade (\$25)
- ☐ Sixth Grade (\$25)
- ☐ Tinker Academy (\$35) (7th-9th)

ROBOTICS - July 6-8 | 8 - 11:30 a.m.

- ☐ Robotics Camp 1 - Grades 7-9 (\$25)
- ☐ Robotics Camp 2 - Grades 5-6 (\$25)

I hereby give permission for my child to participate in the STEM Enrichment Summer Camps selected above. I agree that neither the school, nor its representatives, will be held responsible for any injury to the above named student in the course of STEM camp activities.

Furthermore, I hereby grant full permission to use my child's name and likeness, as well as any photographs and any record of this event in which they may appear for any legitimate purpose, including advertising and promotion.

Date _____

Parent Signature _____

About STEM and STS at Columbus Public Schools

STEM on the GO!

- Elementary mobile STEM lab.
- Current lessons range from 3rd - 6th grades
- 11 STEM lesson kits that are ready with all materials for teacher use.

CMS STEM Classes

5th Grade: Begin computer aided drawing (CAD), Electronics, Manufacturing a product, Lighter than air vehicles.

6th Grade: Competitive vehicle design, Robotics, Manufacturing a product, Designing escape routes (CAD)

7th Grade: Solidworks (CAD), Magnet levitation vehicle design, Architecture, Rockets

8th Grade: Manufacturing a product, Design & modeling, Robotics, Sustainable energy, History & exploring engineering.

CHS CTE Classes

Mechatronics/Robotics/Engineering

Basic & advanced electronics, Mechatronics I & II, Robotics

Design Technology

Intro to Engineering & Engineering Concepts, Solid-works I (CAD), Solidworks 2 (CAD), Architectural drafting & design.

Manufacturing Technology

Linkages, Manufacturing processes, Welding, Advanced manufacturing design

Construction Technology

Manufacturing woods, Principles of Construction, Advanced Construction

Automotive Technology

We offer 4 levels of automotive technology classes.



Third Grade

(8:00 - 11:30)

Max Enrollment: 40

Music To My Ears - Students are introduced to acoustical engineering as they design and improve acoustic devices that amplify music from a speaker in several locations.

Sky's the Limit** - Dive into aeronautical engineering by designing models of flying technologies that help NASA collect aerial photographs.

Hop To It - An invasive species of toad has invaded Australia! Students will engineer a humane trap to catch the toad (no real toads involved).

Fourth Grade

(8:00 - 11:30)

Max Enrollment: 40

Lift Off! - Help NASA explore faraway worlds by engineering prototype rockets and rovers to explore planets and moons in our solar system.

Light Up the Night Sky - Experiment with circuits and sculpting materials and design a light display that replicates the Northern Lights.

Bubble Bonanza - Explore how bubbles behave and investigate the properties of different materials to engineer the ultimate bubble wands!



For more information contact, Danita Wickens
wickensd@discoverers.org.

Fifth Grade

(12:30 - 4:00)

Max Enrollment: 40

Recycled Racers - Explore the properties of a race car to design the ultimate racers made entirely of recycled materials.

To the Rescue - Severe flooding has cut people off from important supplies. Engineer "aid drop packages" that can be dropped from an aircraft, protect what's inside, and are easy to find once they reach the ground.

In Good Hands - Learn about space hazards and help engineer part of a spacesuit for a new NASA mission!

STEM SHOWCASE

June 24th

4:30 - 6 p.m.

Look out for more
details as things
are finalized.



Sixth Grade

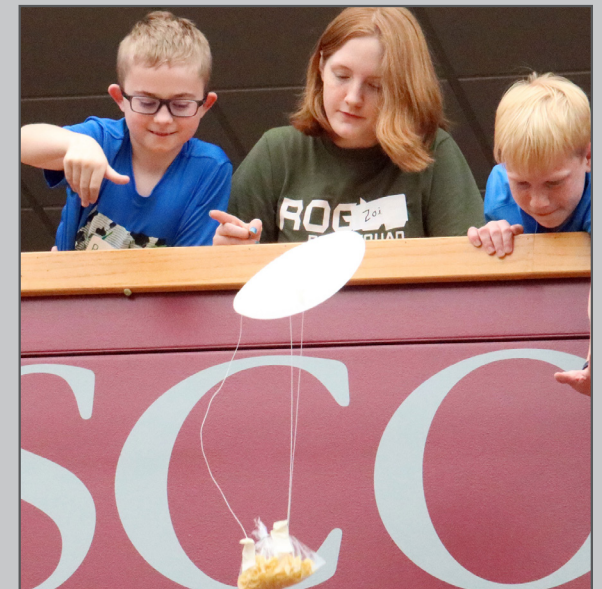
(12:30 - 4:00)

Max Enrollment: 40

Testing the Waters - Life on Earth requires access to clean water, and as populations grow, the demand for water increases. Become a water resource engineer to design creative ways to reuse water.

Food For Thought - Ever wonder how ice cream gets to be so creamy and delicious? Find out for yourself as you engineer a process for making ice cream.

World's Apart - How do scientists and engineers gather information from places in the solar system that are difficult to reach? Use the Engineering Design Process to design remote sensing devices that can help scientists learn about a newly discovered moon.



TINKER ACADEMY

June 21-24 | 8 a.m.-2:30p.m. | Grades 7-9

Students will utilize the engineering design process as they use their creativity and tinkering skills to create a hydraulic robotic arm, an indestructible egg drop containment device, a CAD project, and take apart a toy to engineer a new one.



ROBOTICS

July 6-8 | 8 - 11:30 a.m. | CHS

Both camps are at Columbus High School.

Robotics Camp 1 - Grades 7-9

*3-Day Camp - Max enrollment: 18

Robotics Camp 2 - Grades 5-6

*3-Day Camp - Max enrollment: 24