

Camper's Name _____

School _____ Grade in 2020 _____

Parent Name _____

Address _____

Parent Phone _____

Emergency contact (beside parent/guardian)

Emergency Contact Phone _____

Check the camps for which you are registering.

Engineering Adventures - July 15-18, cost \$20

☐ Fourth grade

☐ Fifth grade

☐ **Tinker Academy** - July 15-18
incoming sixth-eighth graders, cost \$30

☐ **Vex Robotics** - July 8-11
incoming seventh-ninth graders, cost \$20

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

Please make checks payable to CPS Foundation.
Mail registration to, CPS, PO Box 947, Columbus NE 68602-0947



Students do an activity from STEM on the GO

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, Solidworks 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.

Discovering STEM



CPS Summer Enrichment Camps

Engineering Adventures

Date: July 15-18, 2019

Cost: \$20

Times: 8-11:30 a.m.

(Students can take advantage of lunch at CMS when the camp is done)

Place: CMS, 2200 26 St.

Grade: Incoming 4th graders

Max enrollment: 40

4th Grade Modules

- Bubble Bonanza! - Explore how bubbles behave and investigate the properties of different materials to engineer the ultimate bubble wands!
- The Sky's the Limit! - Dive into aeronautical engineering by designing models of flying technologies that help NASA collect aerial photographs.
- Light Up the Night Sky! - Experiment with circuits and sculpting materials and design a light display that replicates the Northern Lights.

Tinker Academy

Date: July 15-18, 2019

Cost: \$30

Times: 8-2:30 p.m.

(Lunch is provided.)

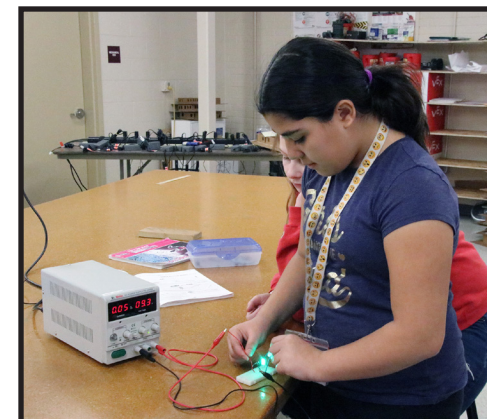
Place: CMS, 2200 26 St.

Grade: Incoming 6th-8th graders

Max enrollment: 64

6-8 Grade Modules

- High Tech Fashion - Design wearable light up duct tape clothing! Students work with basic circuit methodology while infusing their designs with creativity and innovation. Show off your work on the CMS fashion runway!
- Marble Madness - Students will use their ingenuity and learn to work with basic tools to create the ultimate complex marble run where to meet specific design requirements. Can you give your marble the longest ride?
- Toy Automata - Bring an old broken toy, take it apart, and explore how it works. Design a new toy using old toy parts and combining it with cams, levers, linkages, and cranks.
- Kitchen Detectives - Code breakers meets Escape Room meets Scavenger Hunt! Students will use cryptology, math, and their puzzle solving skills to decipher a cake recipe written in code. Get it right and enjoy a yummy treat!



CMS STEM class

Registration

You can sign up for the camps, by using the form on the other side or going to the website.

1. going online to <https://www.cpsanchor.com/what-we-do/projects/stem-on-the-go.html>

2. Mail the form to
CPS Summer Enrichment Camps
PO Box 947
Columbus NE 68602-0947

Engineering Adventures

Date: July 15-18, 2019

Cost: \$20

Times: 8-11:30 a.m.

(Students can take advantage of lunch at CMS when the camp is done)

Place: CMS, 2200 26 St.

Grade: Incoming 5th graders

Max enrollment: 40

5th Grade Modules

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

Vex Robotics

Date: July 8-11, 2019

Cost: \$20

Times: 8-11:30 a.m.

Place: CHS, 3434 Discoverer Dr.
Room H104

Grade: Incoming 7th-9th graders

Max enrollment: 18

Interested in robotics? Or want to take your robotic skills to the next level? This camp is for you! Students start building with VEX on day one and learn the mechanics to construct their robots. They will then program the robot to complete a challenge using a remote controls.



Career and Technology class at CHS.