

# TRACK DESCRIPTIONS



## CARNEGIE TRACK

### **Touch-a-Cruiser with CMU's Police Department**

Meet CMU Police Department officers and explore their emergency vehicles, including SUVs and motorcycles, in this hands-on Touch-a-Cruiser event. Learn about campus safety and connect with our public safety team.

### **Build a Renaissance Cipher Wheel + Explore CMU's Rare Books & Special Collections**

Designed for older children and curious young makers, this hands-on program invites participants to build their own Renaissance-style cipher wheel while discovering the fascinating world of historical codes and secret writing. Along the way, they'll explore rare books and early technologies from CMU's Special Collections and learn how centuries-old ideas about encryption still shape the technologies we use today.

### **Explore the Chosky Theater & Tension Grid**

A behind-the-scenes adventure! Step into a backstage tour of the Chosky & Rauh Theaters, where the magic of theater comes to life. Explore the intricate set, and see what goes on behind the curtain! If you're feeling brave, you can cross the tension grid, a thrilling walk high above the ground!

### **3-D Printing with Gelfand Center**

Come learn about different applications of 3D printing and use 3D printing pens to create a piece of your own to take home! The Leonard Gelfand Center connects CMU with K-12 students to spark curiosity and ignite learning.

*Register  
Now*



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## TARTAN TRACK

### **Kids' Guide to Understanding AI**

How do artificial intelligence (AI) systems work and what are their abilities and limitations? We'll look at real-life examples and those from science fiction to understand these systems better. Bring your questions!

### **PicO: Learn Cybersecurity Through Capture-the-Flag Challenges**

Discover how cybersecurity experts learn to think like hackers through Capture-the-Flag (CTF) challenges. In this interactive session, participants will explore how platforms like picoCTF turn puzzles, coding, and problem solving into real cybersecurity skills.

### **Carnegie Mellon Racing Workshop Tour**

Carnegie Mellon Racing (CMR) is hosting a workshop tour for Take Our Children To Work Day! Every year, CMR designs and manufactures a fully electric F1-style race car. Stop by to see our past and current race cars up close and learn more about the team!

### **X-ray Vision: Seeing Materials Beneath the Surface**

Come see the Materials Characterization Facility's X-ray Lab. There will be an emphasis on a special kind of 3D x-ray (called computed tomography) with a demo and a discussion on why researchers use x-rays to study their materials.

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## SCOTTY TRACK

### **Explore The Costume Shop**

Step into the creative world of the School of Drama Costume Shop, where the magic of costume design comes to life! Explore the space where the intricate costumes for our shows are crafted. Get your hands involved in the fun with a hands-on craft activity!

### **Chemistry in Your Kitchen**

Experience the magic of science in the kitchen when food ingredients and molecules are transformed. Watch fun demonstrations using everyday ingredients and microwave ovens to learn how chemistry is at work in your kitchen.

### **Passing Notes in Class**

This presentation lets you know about secret codes, and how to do them with simple materials (paper, pencil, paperclip). We'll look a couple of codes that can be combined to make a code that is harder to break.

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## THISTLE TRACK

### **Touch-a-Cruiser with CMU's Police Department**

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### **Play CM-You**

Get ready to move! You'll try out a variety of exciting games and activities, including pickleball, led by the CMU Recreation team. Wear your sneakers and come ready for fun!

### **Sustainability + Creative Use: No Sew Tote Bag Making**

Looking for new ways to reduce your waste? Learn how to make a reusable tote bag out of an old t-shirt! Make one for yourself and/or make one for the CMU Food Pantry.

### **Zooming In: Bugs on the Micron Scale**

Come join us as we use a scanning electron microscope to examine bugs to "see" features we can't see with our human eyes! We'll throw in a little physics as we talk about what makes electrons special for imaging, and for anyone who wants more, we'll happily show you our cut-open display microscope!

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## VIRTUAL TRACK

### **Virtual Games & Program Tools**

Get ready for some fun virtual games where you'll try out interactive tools, play along with easy activities, and get comfortable participating before the program begins!

### **Your Brain vs. the Algorithm**

Your Brain vs. the Algorithm explores how social media and AI systems compete for our attention and shape what we see, think, and believe. Through simple examples and surprising facts, kids and parents will learn how algorithms work and how critical thinking helps us stay in control of our own minds.

### **Entertainment Technology Center (ETC) Virtual Tour & Scavenger Hunt**

Join us for a live virtual tour of the ETC where you'll explore a creative space for games and storytelling while playing along with a fun Bingo-style scavenger hunt to spot exciting things along the way!

*Register  
Now*

