2019
SUMMER CAMPS
AGES 3-16

651-221-4511
SMM.ORG/CLASSES
NEW CAMPS FOR 2019
We’re thrilled to introduce fantastic new camp experiences that will ignite creativity, explore the imagination, and build lifelong STEM skills.

Carpentry: Art-pentry (ages 6–8) .......... p. 32
Imagination Island (ages 7–12) ............ p. 15
STAR: Fit, Find & Figure Out (6–12) ...... p. 7
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T-Shirt Artists (ages 13–16) ............. p. 31
Upcycled Treasures (ages 9–12) .......... p. 29

WHEN TO REGISTER
Museum Members: Feb. 12 — Purchase a membership online and immediately receive priority registration benefits!

General Public: Feb. 26 — Premailed or faxed registrations processed on this date.

HOW TO REGISTER
Online (preferred method) at smm.org/classes using a credit card or funds on account. Email confirmation will be sent to you immediately. If you experience difficulties with online registration, please call (651) 221-4511 for assistance.

Mail registration form (p.34) with payment (check or credit card number) to:
Summer Camp Programs
Attn: Registration Coordinator
Science Museum of Minnesota
120 West Kellogg Blvd.
Saint Paul, MN 55102

Fax the registration form with credit card number to (651) 221-4528.

Waiting List — If your desired camp is full and you sign up for the waiting list, we will contact you if an opening becomes available.

Scholarship Application — See page 35 for detailed information about scholarships.

THREE ST. PAUL LOCATIONS
A Science Museum of Minnesota
120 West Kellogg Boulevard.

B Metropolitan State University
700 East 7th Street

C St. Catherine University
2004 Randolph Avenue
SCHEDULE YOUR CAMPS TODAY!
Week 1: June 10–June 14

FULL DAY

**Wonka Week**

Enter the sweet world of candy as you explore the wonders of the Chocolate Factory. Whisk your way through the Physical Plant on the glass elevator, chocolate river, and other fantastic, hair-raising, move-you-from-here-to-there systems. Become a master candy maker as you knead, mix, and pour to create delicious confections every day. Explore the fascination with candies people have enjoyed over 100 years and invent a candy yourself that could become one of the most famous candies in the world. You don’t need a golden ticket for this camp. **Not recommended for children with food allergies.**

**WHEN:** Mon–Fri; Jun 10–Jun 14; 8:30 AM–4:30 PM

**AGES:** 7–12

**CODE:** YDWNK0610

**FEE:** $367, $349 mbr

**PLACE:** Science Museum (Education Entrance)
Campers will handle and/or consume food in this course.

AGES 6–8

**Intro to Carpentry**
Head to the workshop and safely start to use carpentry tools such as saws, hammers, and nails. Measure wood and build a wooden toy to take home.

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
- **AGES:** 6–8
- **CODE:** YXITC0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**LEGO Amusement Park**
Learn about simple machines such as gears and pulleys while making models of rides that move. At the end of the week, we’ll combine projects and make an amusement park for LEGO Minifigures.

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
- **AGES:** 6–8
- **CODE:** YXLAP0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**Wizard School**
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand.

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
- **AGES:** 6–8
- **CODE:** YXWIZ0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**Blow It Up!**
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
- **AGES:** 6–8
- **CODE:** YXBIU0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**Super Scratch**
Create your own simple interactive animations, learn the basics of computer programming, and design a simple computer game using Scratch Junior. Create your own board game as you discover basic programming principles.

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
- **AGES:** 6–8
- **CODE:** LXSUP0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**Game On!**
Investigate how science, numbers, and creative thinking are used to develop amazing and challenging board games and card games. Explore how logic is used in games at the Science Museum, and then work as a game designer to build your own board game. Explore strategies and game thinking to defeat your friends or win together!

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
- **AGES:** 6–8
- **CODE:** LXGMO0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**Code a Bot**
Use a unique coding system to program a mini robot called an Ozobot. Make Ozobot dance, do tricks, and work together with other Ozobots. Create costumes and design a neighborhood for your Ozobot. Your ideas make the Ozobot move and groove!

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
- **AGES:** 6–8
- **CODE:** YXCA0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

**Get Set to Be a Vet**
Explore the careers of veterinarians, discover how to take better care of your pets, and make dog treats. Learn safe behavior around dogs, examine real animal X-rays, and perform a mock surgery.

- **WHEN:** Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
- **AGES:** 6–8
- **CODE:** YXGSV0610
- **FEE:** $188, $179 mbr
- **PLACE:** Science Museum (Education Entrance)

“[My child] continues to create new projects at home using tools he learned at SMM.”

Campers will handle and/or consume food in this course.
Week 1: June 10–June 14

AGES 9–12

Blow It Up!
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

WHEN: Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNBIU0610
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Get Set to Be a Vet
Explore the careers of veterinarians, discover how to take better care of your pets, and make dog treats. Learn safe behavior around dogs, examine real animal X-rays, and observe an animal dissection.

WHEN: Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNGSV0610
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Wizard School
Explore the science in potions, magic tricks, and other wizarding secrets. Complete challenges to earn house points. Test your skills with feats from each professor. Create a light-up wand that would make Ollivander proud.

WHEN: Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWI20610
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Design a Computer Game: Create Your Own Adventure Game
Build your own interactive game or story using programming software from the MIT Media Lab called Scratch. Select a theme, write a story, build an environment, create characters, then add puzzles and sound effects.

WHEN: Mon–Fri; Jun 10–Jun 14; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNDCG0610
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Maker Camp: Carpentry
Learn by doing! Pick up your tools and spend a week making projects in the carpentry workshop. Build marble mazes and games. Finish the week building your own design to take home.

WHEN: Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNMCPO610
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

App, Build, Code
Quit playing someone else's boring app and design your own! Build an app using custom graphics and sound that can tap into an Android device's built-in touchscreen, accelerometer, and camera to create a truly interactive experience. Upload an app to the Google Play Store to share with friends.

WHEN: Mon–Fri; Jun 10–Jun 14; 1:00 PM–4:00 PM
AGES: 9–12
CODE: LNABC0610
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

WE ♥ CAMP SUPPLY DONATIONS

ACCEPTED STARTING JUNE 1

• 8-oz., 20-oz., 1-liter & 2-liter plastic pop/water bottles
• Plastic rectangular baby-food containers with lids & glass baby food jars with lids
• Oatmeal & any cylindrical box like Swiss Miss or Pringles (lids are nice to have)
• Gallon or half-gallon ice cream buckets with handles
• Shoe boxes
• Plastic containers with lids, 16 oz. & smaller (margarine, yogurt, cottage cheese, etc.)
• Grocery bags—paper with handles
• Plastic film containers
• Prescription pill bottles with non-child-proof caps & no labels
• Spools from thread or adding machines/cash registers
• Mint tins (like Altoids)
• Buttons and jewelry
• Scrap fabric, ribbon & yarn
• Plastic or fabric plants
• Any small odds and ends ("doodads!") like toys or pieces of toys, packaging, etc.

NOT ACCEPTED

• Computer hard drives, printers, or monitors
• Television sets
• Microwaves
• Cell phones
• Anything with a rechargeable battery still attached
• Fans or vacuum cleaners

Questions? Call Tracy at (651) 221-2599 or email tmcman@smm.org. Thank you!
FULL DAY

**Robotics Lab**
Explore robots past and present, and imagine their future. Program different types of robots and experiment with how they can navigate and operate. Construct your own personal robot that responds to its environment using sensors and a microcontroller. Get inspired by nature and experiment with everyday materials to create prototypes of your own future technology.

**Camp Curie: A Science Camp for Girls**
Investigate the contributions of women in science this summer. Act as an archaeologist as you learn about early Minnesota peoples and explore the technologies they used to meet daily needs. Employ unconventional materials to experiment with electrical circuits to wear. Be inspired by nature. Use biomimicry to design products that solve problems. Practice Earth’s process of reuse by re-purposing one cardboard box into three projects.

WHEN: Mon–Fri; Jun 17–Jun 21; 8:30 AM–4:30 PM
AGES: 9–12
CODE: YDROB0617
FEE: $367, $349 mbr
PLACE: Science Museum (Education Entrance)

WHEN: Mon–Fri; Jun 17–Jun 21; 8:00 AM–4:00 PM
AGES: 6–9
CODE: YDCMC0617
FEE: $367, $349 mbr
PLACE: Metropolitan State University (map will be sent before camp)

PRESCHOOL

**Preschool Science: Dinomania**
Look at dinosaur bones, make some different kinds of dinosaurs, and visit our Dinosaurs and Fossils Gallery.

AGES: 3–5
WHEN: Mon–Fri; Jun 17–Jun 21; 8:45 AM–9:45 AM
CODE: YPDMA0617
FEE: $68, $65 mbr
PLACE: Science Museum (Education Entrance)

AGES: 5–6
WHEN: Mon–Fri; Jun 17–Jun 21; 10:00 AM–11:45 AM
CODE: YRDMA0617
FEE: $126, $120 mbr
PLACE: Science Museum (Education Entrance)

“She loves SMM camps because they allow her to explore new areas in a hands-on and interactive way. She also likes trying new things in a safe environment.”

Campers will handle and/or consume food in this course.
**Week 2: June 17–June 21**

**AGES 6–8**

**Frozen Solid**
Do you want to build a snowman... in the summer? Make indoor snow, grow crystal snowflakes, and freeze liquid in an instant. Experiment with heat and cold, and taste some frozen treats along the way.

**WHEN:** Mon–Fri; Jun 17–Jun 21; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXFRZ0617

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Secret Hiding Places**
Hide your secrets in plain sight. Make trap doors, camouflage an object, and draw maps to reveal their location. Hunt the final treasure by following a trail of clues.

**WHEN:** Mon–Fri; Jun 17–Jun 21; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXSHP0617

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Marble Run Engineering**
Get rolling! Use your imagination to design a marble run that twists, turns, and even defies gravity. Build tracks, raceways, and challenges for your marbles. Experiment with physics and probability. Create, test, and improve your creations throughout the week.

**WHEN:** Mon–Fri; Jun 17–Jun 21; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXMRE0617

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Minifigure Movie Stars**
Write and direct an exciting movie starring a LEGO Minifigure character of your own creation. Explore various animation and editing techniques. Design and construct your own sets and props. Close out the week with a camper film festival!

**WHEN:** Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM

**AGES:** 6–8

**CODE:** YXMFM0617

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Wizard School**
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand.

**WHEN:** Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM

**AGES:** 6–8

**CODE:** YXWIZ0617

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Robots and Rockets**
Find out what robots can and cannot do, make a robotic arm, and control a robot. Experiment with propulsion and make different kinds of rockets.

**WHEN:** Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM

**AGES:** 6–8

**CODE:** YXRAR0617

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

“I was truly impressed with the amount of content that was packed into the whole experience. We will definitely be back next year!”

Campers will handle and/or consume food in this course.
Week 2: June 17–June 21

AGES 9–12

Wizard School
Explore the science in potions, magic tricks, and other wizarding secrets. Complete challenges to earn house points. Test your skills with feats from each professor. Create a light-up wand that would make Ollivander proud.

WHEN: Mon–Fri; Jun 17–Jun 21; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNWIZ0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Gamer Girls
Are you a girl who games? Design an interactive game using Scratch software, complete with sound, animation, and more. Experience other girl-created games and learn about how women today are shaping the gaming industry. Play and share your game online.

WHEN: Mon–Fri; Jun 17–Jun 21; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNGMG0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Marble Run Engineering
Get rolling! Use your imagination to design a marble run with twists and turns - maybe even defy gravity. Build tracks, raceways, and challenges for your marbles. Experiment with physics and probability. Create, test, and improve your creations throughout the week.

WHEN: Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNMRE0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Video Mashup
Discover video editing and special effects. Combine short video and sound clips to create your own mashup movie, and then use a green screen to add yourself to a story you create. Learn Adobe Elements Premiere video editing software.

WHEN: Mon–Fri; Jun 17–Jun 21; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNVDM0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Atlas Adventure
Chart the course to adventure! Learn how to seek and find using maps, the stars, and modern technology. Use tools like compasses and GPS to navigate the world around you, try geocaching, and make a personal map of nearby parks.

WHEN: Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNATA0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Theme Park Physics
Come one, come all! Put physics to the test in your own amazing, tricky carnival game. Spin, hover, float, and fly working models of thrill rides. Investigate the science behind iconic theme park attractions.

WHEN: Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNTPP0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Disease Detectives
See how diseases spread and examine the body's immune system. Grow bacterial cultures and observe them microscopically. Simulate epidemics and be on the team of scientists fighting disease outbreaks.

WHEN: Mon–Fri; Jun 17–Jun 21; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNDIS0617
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 3: June 24–June 28

FULL DAY

**STAR: Fit, Find, & Figure Out**

NEW! Investigate the skills of puzzling through Science, Theater, and Art in this unique collaborative camp. Piece together artistic solutions to everyday challenges and repurpose pieces into a whole through sculpture, collage, and mosaic techniques. Problem-solve the many puzzling components of creating and performing an original play. Try out the methods inventors, computer scientists, and archaeologists use to solve real-life puzzles.

*STAR Collective is a collaboration between the Science Museum, SteppingStone Theatre, and COMPAS.*

**LEGO Lab**

This camp is awesome! Experiment using LEGO for printmaking, mold making, and mosaics. See LEGO come to life in a movie you animate. Build large collaborative projects and photograph your microscale creations.

**Mystery Camp**

You’re on the case, and you’ll need to use all the forensic tools up your sleeve to solve this mystery. Work with your scientific team and conduct experiments as you use science, logic, and ingenuity to solve a mystery. As the mystery unfolds, you’ll examine fibers under the microscope, take fingerprints, and put your heads together to solve this year’s puzzling problem.

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**When:** Mon–Fri; Jun 24–Jun 28; 8:00 AM–4:00 PM

**Ages:** 6–9

**Code:** YDLGL0624

**Fee:** $367, $349 mbr

**Place:** St. Catherine University, St. Paul (map will be sent before camp)

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**When:** Mon–Fri; Jun 24–Jun 28; 8:30 AM–4:30 PM

**Ages:** 6–12

**Code:** YDSEC0624

**Fee:** $349

**Place:** Science Museum (Education Entrance)
**Week 3: June 24–June 28**

**PRESCHOOL**

*Preschool Science: LEGO Fun for the Very Young*
Build with LEGO Duplo sets as you engage in storytelling and creative play.

**AGES:** 3–5  
**WHEN:** Mon–Fri; Jun 24–Jun 28; 8:45 AM–9:45 AM  
**CODE:** YPLGF0624  
**FEE:** $68, $65 mbr  
**PLACE:** Science Museum (Education Entrance)

**AGES:** 5–6  
**WHEN:** Mon–Fri; Jun 24–Jun 28; 10:00 AM–11:45 AM  
**CODE:** YRLGF0624  
**FEE:** $126, $120 mbr  
**PLACE:** Science Museum (Education Entrance)

**AGES 6–8**

*Blow It Up!*
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

**WHEN:** Mon–Fri; Jun 24–Jun 28; 9:00 AM–12:00 PM  
**AGES:** 6–8  
**CODE:** YXBIU0624  
**FEE:** $188, $179 mbr  
**PLACE:** Science Museum (Education Entrance)

*Build A Fort*
Imagine a fort too big to fit under the dining room table. Come build big with cardboard and create the life-size fort of your dreams!

**WHEN:** Mon–Fri; Jun 24–Jun 28; 9:00 AM–12:00 PM  
**AGES:** 6–8  
**CODE:** YXBAF0624  
**FEE:** $188, $179 mbr  
**PLACE:** Science Museum (Education Entrance)

*Spy Masters*
Learn to spy with your little eye. Create a top secret spy book, learn a secret code, and build simple alarms and other spy equipment to use in your room.

**WHEN:** Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM  
**AGES:** 6–8  
**CODE:** YXSPY0624  
**FEE:** $188, $179 mbr  
**PLACE:** Science Museum (Education Entrance)

*Super Scratch*
Create your own simple interactive animations, learn the basics of computer programming, and design a simple computer game using Scratch Junior. Create your own board game as you discover basic programming principles.

**WHEN:** Mon–Fri; Jun 24–Jun 28; 9:00 AM–12:00 PM  
**AGES:** 6–8  
**CODE:** LXSUP0624  
**FEE:** $188, $179 mbr  
**PLACE:** Science Museum (Education Entrance)

*Chemistry in the Kitchen*
Explore how chemistry makes food delicious. Use everyday ingredients and kitchen tools to measure, mix, cook, and bake. Test your experiments by eating them to become a top chef! **Not recommended for children with food allergies.**

**WHEN:** Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM  
**AGES:** 6–8  
**CODE:** YXCIK0624  
**FEE:** $188, $179 mbr  
**PLACE:** Science Museum (Education Entrance)

*Excellence Engineering*
Have fun with engineering by pushing the limits in this camp. Use your creativity and ingenuity to design things to go faster, reach higher, last longer, and make people and creatures happier.

**WHEN:** Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM  
**AGES:** 6–8  
**CODE:** YXEEN0624  
**FEE:** $188, $179 mbr  
**PLACE:** Science Museum (Education Entrance)

\* Campers will handle and/or consume food in this course.
Week 3: June 24–June 28

AGES 9–12

Intro to Chemistry
Enter the exciting world of chemistry! Distill a scent, engineer hot and cold packs, and check out colored fire. Discover the seven signs of chemical reactions.

When: Mon–Fri; Jun 24–Jun 28; 9:00 AM–12:00 PM
Ages: 9–12
Code: YNITC0624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

Practical Potions
Expand your wizarding knowledge as you brew practical potions for everyday magic! Discover the science behind concoctions that heal, clean, conceal and much more. Complete house challenges, create a glowing patronus, and bring it all home in your own potions box.

When: Mon–Fri; Jun 24–Jun 28; 9:00 AM–12:00 PM
Ages: 9–12
Code: YNPQP0624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

Blow It Up!
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

When: Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM
Ages: 9–12
Code: YNBIU0624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

Design A Computer Game: Create Your Own Adventure Game
Build your own interactive game or story using programming software from the MIT Media Lab called Scratch. Select a theme, write a story, build an environment, create characters, then add puzzles and sound effects.

When: Mon–Fri; Jun 24–Jun 28; 9:00 AM–12:00 PM
Ages: 9–12
Code: LNDCCG0624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

App, Build, Code
Quit playing someone else’s boring app and design your own! Build an app using custom graphics and sound that can tap into an Android device’s built-in touchscreen, accelerometer, and camera to create a truly interactive experience. Upload an app to the Google Play Store to share with friends.

When: Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM
Ages: 9–12
Code: LNABC0624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

Upcycled Treasures
Don’t throw it out! Turn that old t-shirt into your favorite tote bag, transform plastic into wearable art, and more. Design and experiment with new ways to “upcycle” different materials to create unique treasures by reusing, revamping, and recycling each day.

When: Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM
Ages: 9–12
Code: YNUPT0624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

TEENS

Game Design Lab
Build your own interactive game using Scratch programming software. Learn advanced block coding techniques and work with your friends to reverse engineer code. Share and play your game with others. Previously titled Teen Computer Game

When: Mon–Fri; Jun 24–Jun 28; 1:00 PM–4:00 PM
Ages: 13–16
Code: YTGDLO624
Fee: $188, $179 mbr
Place: Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 4: July 1–July 3  No camp July 4–5

AGES 6–8

Wizard School
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand. 🪤

**WHEN:** Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
**AGES:** 6–8
**CODE:** YXWIZ0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Spy Masters
Learn to spy with your little eye. Create a top secret spy book, learn a secret code, and build simple alarms and other spy equipment to use in your room.

**WHEN:** Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
**AGES:** 6–8
**CODE:** YXSPY0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Reaction Lab
Get ready to think like a scientist as you create chemical reactions, experiment with dry ice, engineer a slow roller game, and explore motion. *Previously titled Mad Scientist’s Lab*

**WHEN:** Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
**AGES:** 6–8
**CODE:** YXRLB0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Intro to Carpentry
Head to the workshop and safely start to use carpentry tools such as saws, hammers, and nails. Measure wood and build a wooden toy to take home.

**WHEN:** Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
**AGES:** 6–8
**CODE:** YXITC0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Super Scratch
Create your own simple interactive animations, learn the basics of computer programming, and design a simple computer game using Scratch Junior. Create your own board game as you discover basic programming principles.

**WHEN:** Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
**AGES:** 6–8
**CODE:** LXSUP0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

LEGO Machines and Structures
Learn new LEGO building techniques to make machines that move and structures that can bear weight.

**WHEN:** Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
**AGES:** 6–8
**CODE:** YXLMS0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Drawing + Animation = Movies
Draw your own creations and attach limbs and other moving parts. Bring them to life using HUE stop-motion animation software. Plan and film adventures for your characters with props and backgrounds of your own design. Share your movies online.

**WHEN:** Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
**AGES:** 6–8
**CODE:** LXDAM0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Get Set to Be a Vet
Explore the careers of veterinarians, discover how to take better care of your pets, and make dog treats. Learn safe behavior around dogs, examine real animal X-rays, and perform a mock surgery. 🦸

**WHEN:** Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
**AGES:** 6–8
**CODE:** YXGSV0701
**FEE:** $120, $114 mbr
**PLACE:** Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 4: July 1–July 3  No camp July 4–5

AGES 9–12

Castles & Catapults
Design and build a miniature castle to scale using wood, your ingenuity, and skill. Experiment with medieval technology like trebuchets and catapults to defend your castle.

WHEN: Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNCAC0701
FEE: $120, $114 mbr
PLACE: Science Museum
(Education Entrance)

LEGO Advanced Vehicles
Discover the next level of LEGO vehicle construction. Build model vehicles that have 4-wheel drive, multispeed transmission, and rack and pinion steering.

WHEN: Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNLAV0701
FEE: $120, $114 mbr
PLACE: Science Museum
(Education Entrance)

Get Set To Be a Vet
Explore the careers of veterinarians, discover how to take better care of your pets, and make dog treats. Learn safe behavior around dogs, examine real animal X-rays, and observe an animal dissection.

WHEN: Mon–Wed; Jul 1–Jul 3; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNGSV0701
FEE: $120, $114 mbr
PLACE: Science Museum
(Education Entrance)

Wizard School
Explore the science in potions, magic tricks, and other wizarding secrets. Complete challenges to earn house points. Test your skills with feats from each professor. Create a light-up wand that would make Ollivander proud.

WHEN: Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWIZ0701
FEE: $120, $114 mbr
PLACE: Science Museum
(Education Entrance)

Build A Remote Control Car
Build a self-propelled, wire-controlled vehicle using batteries, motors, and wiring. Test out your car’s performance under a variety of conditions.

WHEN: Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNBRC0701
FEE: $120, $114 mbr
PLACE: Science Museum
(Education Entrance)

Theme Park Physics
Come one, come all! Put physics to the test in your own amazing, tricky carnival game. Spin, hover, float, and fly working models of thrill rides. Investigate the science behind iconic theme park attractions.

WHEN: Mon–Wed; Jul 1–Jul 3; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNTPP0701
FEE: $120, $114 mbr
PLACE: Science Museum
(Education Entrance)

* Campers will handle and/or consume food in this course.
Week 5: July 8–July 12

FULL DAY

**Wonka Week**
Enter the sweet world of candy as you explore the wonders of the Chocolate Factory. Whisk your way through the Physical Plant on the glass elevator, chocolate river, and other fantastic, hair-raising, move-you-from-here-to-there systems. Become a master candy maker as you knead, mix, and pour to create delicious confections every day. Explore the fascination with candies people have enjoyed over 100 years and invent a candy yourself that could become one of the most famous candies in the world. You don’t need a golden ticket for this camp. Not recommended for children with food allergies.

**Ocean Expedition**
Dive into the deep blue sea to discover whales, sharks, and other deep sea creatures. Create your own marine animal for a room sized ocean art installation. Step up close to sharks at a local aquarium. Head to the lab to survey a variety of marine creatures and their unique adaptations. Explore human impact on the salty solution that covers two-thirds of Earth’s surface. Includes field trip to Sea Life Aquarium with a behind-the-scenes tour.

“Summer 2018 was our teenage son’s first time attending any type of camp. [He] loved having hands-on time in his Teen Computer Game group to build programs with other students.”

PRESCHOOL

**Preschool Science: Kitchen Chemistry**
Measure, mix, and bake pretzels and cookies. Pop popcorn and make a drink in your in-house “laboratory.” Not recommended for children with food allergies.

PRESCHOOL

**Preschool Science: Kitchen Chemistry**
Measure, mix, and bake pretzels and cookies. Pop popcorn and make a drink in your in-house “laboratory.” Not recommended for children with food allergies.
AGES 6–8

Chemistry in the Kitchen
Explore how chemistry makes food delicious. Use everyday ingredients and kitchen tools to measure, mix, cook, and bake. Test your experiments by eating them to become a top chef! Not recommended for children with food allergies.

WHEN: Mon–Fri; Jul 8–Jul 12; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXCiK0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Supernova Science
Connect to the cosmos and see yourself among the stars. Find your place in the universe by creating your own telescope, constellation, and galaxy. Use real astronomical techniques to reveal how we know so much about space.

WHEN: Mon–Fri; Jul 8–Jul 12; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXSNS0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Blow It Up!
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

WHEN: Mon–Fri; Jul 8–Jul 12; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXBiu0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Jewelry Maker’s Workshop
Work with various materials and tools to design and make your own necklaces and other jewelry. Examine different gemstones and find out where they come from. Learn how people in many cultures have decorated themselves throughout time.

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXJMW0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Game On!
Investigate how science, numbers, and creative thinking are used to develop amazing and challenging board games and card games. Explore how logic is used in games at the Science Museum, and then work as a game designer to build your own board game. Explore strategies and game thinking to defeat your friends or win together!

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXGMO0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Frozen Solid
Do you want to build a snowman... in the summer? Make indoor snow, grow crystal snowflakes, and freeze liquid in an instant. Experiment with heat and cold, and taste some frozen treats along the way.

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXFRO0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

“The camp is really well planned. Logistics are easy, everything feels safe, and I don’t have to worry about details.”
AGES 9–12

Jewelry Maker’s Workshop
Work with various materials and tools to design and make your own necklaces and other jewelry. Examine different gemstones and find out where they come from. Learn how people in many cultures have decorated themselves throughout time.

WHEN: Mon–Fri; Jul 8–Jul 12; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNJMW0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Design A Computer Game: Create Your Own Adventure Game
Build your own interactive game or story using programming software from the MIT Media Lab called Scratch. Select a theme, write a story, build an environment, create characters, then add puzzles and sound effects.

WHEN: Mon–Fri; Jul 8–Jul 12; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNDCG0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

What’s Up, Doc?
Investigate parts of the human body and its systems to find out what they do to keep you healthy, breathing, growing, thinking, and moving. Scope out common bacteria and investigate how to combat them. Explore what medical professionals can do to treat and heal diseases and injuries.

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWUD0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Video Mashup
Discover video editing and special effects. Combine short video and sound clips to create your own mashup movie, and then use a green screen to add yourself to a story you create. Learn Adobe Elements Premiere video editing software.

WHEN: Mon–Fri; Jul 8–Jul 12; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNVID0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Build A Remote Control Car
Build a self-propelled, wire-controlled vehicle using batteries, motors, and wiring. Test out your car’s performance under a variety of conditions.

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNBRC0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Dazzling Digital Art
Using computer design programs, you will create computer code to craft your own digital and printed art. Explore the intersection of math and design as you combine different shapes, colors, and patterns. Display your projects in a student gallery for others to enjoy!

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 9–12
CODE: LNDDA0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Blow It Up!
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

WHEN: Mon–Fri; Jul 8–Jul 12; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNBIU0708
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)
FULL DAY

**Imagination Island**

NEW! You’ve found yourself on a deserted island! Experiment with unique ways to cook, preserve food, and purify water. Design a model shelter on stilts to keep you high and dry, then customize it with gadgets and contraptions. Create and use tools to navigate and learn the land. Build a raft to explore the waters around the island. Come ready for a great adventure!

**WHEN:** Mon–Fri; Jul 15–Jul 19; 8:30 AM–4:30 PM
**AGES:** 7–12
**CODE:** YDIM10715
**FEE:** $367, $349 mbr
**PLACE:** Science Museum (Education Entrance)

**Comic and Animation Convention**

Come to our cartoon convention. Wield a pen to experiment with different ways to sequence your illustrated adventures. Sketch your own comic and publish it in our anthology. Write and direct an exciting movie starring a LEGO Minifigure character of your own creation. Bring your movie to life as you create unique sets and props. Explore various animation styles in HUE Animation using some unusual stars. View your movies throughout the week!

**WHEN:** Mon–Fri; Jul 15–Jul 19; 8:00 AM–4:00 PM
**AGES:** 7–12
**CODE:** YDCA.C0715
**FEE:** $367, $349 mbr
**PLACE:** St. Catherine University (map will be sent before camp)

Campers will handle and/or consume food in this course.
Week 6: July 15–July 19

AGES 6–8

Wizard School
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXWIZ0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Excellence Engineering
Have fun with engineering by pushing the limits in this camp. Use your creativity and ingenuity to design things to go faster, reach higher, last longer, and make people and creatures happier.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXEE0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Jewelry Maker’s Workshop
Work with various materials and tools to design and make your own necklaces and other jewelry. Examine different gemstones and find out where they come from. Learn how people in many cultures have decorated themselves throughout time.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXJMW0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Physics Toys
Make toys to take home that spin, balance, light up, or make sound. Explore the basics of motion, pitch, color, and light.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXPHA0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Carpentry: Art-Pentry
NEW! Explore where art meets carpentry! Use hammers, saws, and drills to build gadgets that allow you to create unique masterpieces in unexpected ways.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXCAP0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

LEGO Machines and Structures
Learn new LEGO building techniques to make machines that move and structures that can bear weight.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXLMS0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

CSI: Clues & Stuff Investigators
Grab your magnifying glass and your microscope and join the Science Museum’s very own CSI team. We’ll work together to solve cases throughout the week using fiber, sound, chemical, and other types of evidence analysis. Learn how we can use observations and logic to solve the mysteries we encounter every day. Previously titled Detective Science.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXCSI0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Physics Toys
Make toys to take home that spin, balance, light up, or make sound. Explore the basics of motion, pitch, color, and light.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXPHP0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 6: July 15–July 19

AGES 9–12

Practical Potions
Expand your wizarding knowledge as you brew practical potions for everyday magic! Discover the science behind concoctions that heal, clean, conceal and much more. Complete house challenges, create a glowing patronus, and bring it all home in your own potions box.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNPPO0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Carpentry: American Girl Doll Furniture
Make furniture for American Girl and similar dolls. Learn tool use and safety techniques so that you can continue to design and build furniture at home.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNCAD0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Wizard School
Explore the science in potions, magic tricks, and other wizarding secrets. Complete challenges to earn house points. Test your skills with feats from each professor. Create a light-up wand that would make Ollivander proud.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWIZ0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Game Pad
Design your own incredible story, simulation, or maze game using Scratch software! Create characters and an environment that you’ll control with a game controller you build in camp. Explore circuits by wiring your own controller.

WHEN: Mon–Fri; Jul 15–Jul 19; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNGMP0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Intro to Chemistry
Enter the exciting world of chemistry! Distill a scent, engineer hot and cold packs, and check out colored fire. Discover the seven signs of chemical reactions.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNITC0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

TEENS

Design an App
Hey game designers! Take the next step and design your own app. Share it with your friends to test and play. Using the free versions of online programs, you can build a professional quality game that can be played on computers, the web, or even portable devices.

WHEN: Mon–Fri; Jul 15–Jul 19; 1:00 PM–4:00 PM
AGES: 13–16
CODE: YTDAA0715
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

“My child was inspired to become an explorer and marvel at the world around him through this new lens of science”

 numeros.

 Campers will handle and/or consume food in this course.
Week 7: July 22–July 26

FULL DAY

**Wonka Week**
Enter the sweet world of candy as you explore the wonders of the Chocolate Factory. Whisk your way through the Physical Plant on the glass elevator, chocolate river, and other fantastic, hair-raising, move-you-from-here-to-there systems. Become a master candy maker as you knead, mix, and pour to create delicious confections every day. Explore the fascination with candies people have enjoyed over 100 years and invent a candy yourself that could become one of the most famous candies in the world. You don’t need a golden ticket for this camp. **Not recommended for children with food allergies.**

**WHEN:** Mon–Fri; Jul 22–Jul 26; 8:30 AM–4:30 PM

**AGES:** 7–12

**CODE:** YDWNK0722

**FEE:** $367, $349 mbr

**PLACE:** Science Museum (Education Entrance)

**Camp Curie: A Science Camp for Girls**
Investigate the contributions of women in science this summer. Act as an archaeologist as you learn about early Minnesota peoples and explore the technologies they used to meet daily needs. Employ unconventional materials to experiment with electrical circuits to wear. Be inspired by nature. Use biomimicry to design products that solve problems. Practice Earth’s process of reuse by re-purposing one cardboard box into three projects.

**WHEN:** Mon–Fri; Jul 22–Jul 26; 8:00 AM–4:00 PM

**AGES:** 6–9

**CODE:** YDCMC0722

**FEE:** $367, $349 mbr

**PLACE:** Metropolitan State University (map will be sent before camp)

—I Campers will handle and/or consume food in this course.
Week 7: July 22–July 26

AGES 6–8

Wizard School
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand.

**WHEN:** Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXWIA0722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

Minifigure Movie Stars
Write and direct an exciting movie starring a LEGO Minifigure character of your own creation. Explore various animation and editing techniques. Design and construct your own sets and props. Close out the week with a camper film festival!

**WHEN:** Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXMFMO722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

Calling All Marine Biologists
Probe the depths of the sea and explore the variety of life in the ocean. See a squid from the inside out while dissecting. Discover ocean habitats, build a coral reef model, and get swallowed up by a giant whale!

**WHEN:** Mon–Fri; Jul 22–Jul 26; 1:00 PM–4:00 PM

**AGES:** 6–8

**CODE:** YXCMBO722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

Reaction Lab
Get ready to think like a scientist as you create chemical reactions, experiment with dry ice, engineer a slow roller game, and explore motion. Previously titled Mad Scientist's Lab.

**WHEN:** Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXRLBO722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

Carpentry: Furniture
Use the lingo of the carpenter and the tools of the trade. Build a pine and plywood table to use in a fort or bedroom.

**WHEN:** Mon–Fri; Jul 22–Jul 26; 1:00 PM–4:00 PM

**AGES:** 6–8

**CODE:** YXCPF0722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

Supernova Science
Connect to the cosmos and see yourself among the stars. Find your place in the universe by creating your own telescope, constellation, and galaxy. Use real astronomical techniques to reveal how we know so much about space.

**WHEN:** Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM

**AGES:** 6–8

**CODE:** YXSNS0722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

Super Scratch
Create your own simple interactive animations, learn the basics of computer programming, and design a simple computer game using Scratch Junior. Create your own board game as you discover basic programming principles.

**WHEN:** Mon–Fri; Jul 22–Jul 26; 1:00 PM–4:00 PM

**AGES:** 6–8

**CODE:** LXSUP0722

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)
Week 7: July 22–July 26

AGES 9–12

Carpentry: The Pinball Machine
Design and construct your own tabletop pinball machine with wood and other materials. Experiment with the dynamics of action/reaction and cause/effect.

WHEN: Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNCPP0722
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

App, Build, Code
Quit playing someone else’s boring app and design your own! Build an app using custom graphics and sound that can tap into an Android device’s built-in touchscreen, accelerometer, and camera to create a truly interactive experience. Upload an app to the Google Play Store to share with friends.

WHEN: Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNABC0722
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Calling All Marine Biologists
Probe the depths of the sea and explore the variety of life in the ocean. See a squid from the inside out while dissecting. Discover ocean habitats, build a coral reef model, and get swallowed up by a giant whale! 🐙

WHEN: Mon–Fri; Jul 22–Jul 26; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNCMB0722
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Practical Potions
Expand your wizarding knowledge as your brew practical potions for everyday magic! Discover the science behind concoctions that heal, clean, conceal and much more. Complete house challenges, create a glowing patronus, and bring it all home in your own potions box. 🏡

WHEN: Mon–Fri; Jul 22–Jul 26; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNPRP0722
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Design A Computer Game: Create Your Own Adventure Game
Build your own interactive game or story using programming software from the MIT Media Lab called Scratch. Select a theme, write a story, build an environment, create characters, then add puzzles and sound effects.

WHEN: Mon–Fri; Jul 22–Jul 26; 1:00 PM–4:00 PM
AGES: 9–12
CODE: LNDCG0722
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Marble Run Engineering
Get rolling! Use your imagination to design a marble run with twists and turns—maybe even defy gravity. Build tracks, raceways, and challenges for your marbles. Experiment with physics and probability. Create, test, and improve your creations throughout the week.

WHEN: Mon–Fri; Jul 22–Jul 26; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNMRRE0722
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

“I love the staff at SMM—they work to get to know the kids, and it shows! My individual kids, their quirks and likes, all are part of what they plan for.”

Campers will handle and/or consume food in this course.
Week 8: July 29–August 2

FULL DAY

Metropolis Makers
Have you ever wondered how cities develop and evolve? In Metropolis Makers, you will take on the role of city planner to explore the ever-changing needs of people living in cities, design urban layouts, and create the homes and buildings that structure a community. Put it all together to create a mini metropolis built from LEGO Bricks.

Camp Runestone for Young Wizards
Join us where fantasy and fact are swirled together to create bewitching tales. Apparate from one adventure to another as you examine the exploits of Harry P. and other famous fictional characters. Make herbal potions. Learn about carnivorous plants and vampire bats. Make your own house elf puppet and fly off with a sure-fire spell for distinguishing between science and magic.

WHEN: Mon–Fri; Jul 29–Aug 2; 8:00 AM–4:00 PM
AGES: 7–11
CODE: YDRYW0729
FEE: $367, $349 mbr
PLACE: St. Catherine University (map will be sent before camp)

PRESCHOOL

Preschool Science: Robots
Program your own Ozobot to discover the fascinating world of robots through movement and play.

AGES: 3–5
WHEN: Mon–Fri; Jul 29–Aug 2; 8:45 AM–9:45 AM
CODE: YPROB0729
FEE: $68, $65 mbr
PLACE: Science Museum (Education Entrance)

AGES: 5–6
WHEN: Mon–Fri; Jul 29–Aug 2; 10:00 AM–11:45 AM
CODE: YRROB0729
FEE: $126, $120 mbr
PLACE: Science Museum (Education Entrance)
Week 8: July 29–August 2

AGES 6–8

**Shocking Electrical Discoveries**
Explore magnetism and electricity! Investigate static electricity using everyday objects. Build a simple circuit using a battery, wire, and motor, and experiment with different circuit patterns. Put your circuit into a Jitterbot to make it draw and dance!

**When:** Mon–Fri; Jul 29–Aug 2; 9:00 AM–12:00 PM

**Ages:** 6–8

**Code:** YXSED0729

**Fee:** $188, $179 mbr

**Place:** Science Museum (Education Entrance)

**Blow It Up!**
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

**When:** Mon–Fri; Jul 29–Aug 2; 9:00 AM–12:00 PM

**Ages:** 6–8

**Code:** YXBIU0729

**Fee:** $188, $179 mbr

**Place:** Science Museum (Education Entrance)

**Get Set to Be a Vet**
Explore the careers of veterinarians, discover how to take better care of your pets, and make dog treats. Learn safe behavior around dogs, examine real animal X-rays, and perform a mock surgery.

**When:** Mon–Fri; Jul 29–Aug 2; 9:00 AM–12:00 PM

**Ages:** 6–8

**Code:** YXGSA0729

**Fee:** $188, $179 mbr

**Place:** Science Museum (Education Entrance)

**Chemistry in the Kitchen**
Explore how chemistry makes food delicious. Use everyday ingredients and kitchen tools to measure, mix, cook, and bake. Test your experiments by eating them to become a top chef! **Not recommended for children with food allergies.**

**When:** Mon–Fri; Jul 29–Aug 2; 1:00 PM–4:00 PM

**Ages:** 6–8

**Code:** YXCIO729

**Fee:** $188, $179 mbr

**Place:** Science Museum (Education Entrance)

**Drawing + Animation = Movies**
Draw your own creations and attach limbs and other moving parts. Bring them to life using HUE stop-motion animation software. Plan and film adventures for your characters with props and backgrounds of your own design. Share your movies online.

**When:** Mon–Fri; Jul 29–Aug 2; 1:00 PM–4:00 PM

**Ages:** 6–8

**Code:** LXGSP0729

**Fee:** $188, $179 mbr

**Place:** Science Museum (Education Entrance)

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*Campers will handle and/or consume food in this course.*
“There was immeasurable joy... when he brought his final creation home to share with us from camp.”

【Campers will handle and/or consume food in this course.】
Week 9: August 5–August 9

FULL DAY

Wonka Week
Enter the sweet world of candy as you explore the wonders of the Chocolate Factory. Whisk your way through the Physical Plant on the glass elevator, chocolate river, and other fantastic, hair-raising, move-you-from-here-to-there systems. Become a master candy maker as you knead, mix, and pour to create delicious confections every day. Explore the fascination with candies people have enjoyed over 100 years and invent a candy yourself that could become one of the most famous candies in the world. You don’t need a golden ticket for this camp. **Not recommended for children with food allergies.**

**WHEN:** Mon–Fri; Aug 5–Aug 9; 8:30 AM–4:30 PM
**AGES:** 7–12
**CODE:** YDWNK0805
**FEE:** $367, $349 mbr
**PLACE:** Science Museum (Education Entrance)

Camp Curie: A Science Camp for Girls
Investigate the contributions of women in science this summer. Act as an archaeologist as you learn about early Minnesota peoples and explore the technologies they used to meet daily needs. Employ unconventional materials to experiment with electrical circuits to wear. Be inspired by nature. Use biomimicry to design products that solve problems. Practice Earth’s process of reuse by re-purposing one cardboard box into three projects.

**WHEN:** Mon–Fri; Aug 5–Aug 9; 8:00 AM–4:00 PM
**AGES:** 6–9
**CODE:** YDCMC0805
**FEE:** $367, $349 mbr
**PLACE:** St. Catherine University (map will be sent before camp)

★ Campers will handle and/or consume food in this course.
Week 9: August 5–August 9

PRESCHOOL

Preschool Science: Dinomania
Look at dinosaur bones, make some different kinds of dinosaurs, and visit our Dinosaurs and Fossils Gallery.

AGES 6–8

Blow It Up!
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

WHEN: Mon–Fri; Aug 5–Aug 9; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXBIU0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

LEGO Castles
Learn about medieval technology as you build drawbridges, catapults, and a castle using LEGO Technic pieces.

WHEN: Mon–Fri; Aug 5–Aug 9; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXLGC0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Sunsational Solar Power
Power up with sunlight, no batteries here. Experiment with the sun’s ability to heat, move, and change things. Discover how this energy flows through plants, animals, and us. Capture the power of the sun in everything you make this week.

WHEN: Mon–Fri; Aug 5–Aug 9; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXSUN0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Chemistry in the Kitchen
Explore how chemistry makes food delicious. Use everyday ingredients and kitchen tools to measure, mix, cook, and bake. Test your experiments by eating them to become a top chef! Not recommended for children with food allergies.

WHEN: Mon–Fri; Aug 5–Aug 9; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXCIK0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Code A Bot
Use a unique coding system to program a mini robot called an Ozobot. Make Ozobot dance, do tricks, and work together with other Ozobots. Create costumes and design a neighborhood for your Ozobot. Your ideas make the Ozobot move and groove!

WHEN: Mon–Fri; Aug 5–Aug 9; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXCAB0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Spymasters
Learn to spy with your little eye. Create a top secret spy book, learn a secret code, and build simple alarms and other spy equipment to use in your room.

WHEN: Mon–Fri; Aug 5–Aug 9; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXSPY0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 9: August 5–August 9

AGES 9–12

Intro to Chemistry
Enter the exciting world of chemistry! Distill a scent, engineer hot and cold packs, and check out colored fire. Discover the seven signs of chemical reactions.

WHEN: Mon–Fri; Aug 5–Aug 9; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNITC0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

App, Build, Code
Quit playing someone else’s boring app and design your own! Build an app using custom graphics and sound that can tap into an Android device’s built-in touchscreen, accelerometer, and camera to create a truly interactive experience. Upload an app to the Google Play Store to share with friends.

WHEN: Mon–Fri; Aug 5–Aug 9; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNABC0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Build A Remote Control Car
Build a self-propelled, wire-controlled vehicle using batteries, motors, and wiring. Test out your car’s performance under a variety of conditions.

WHEN: Mon–Fri; Aug 5–Aug 9; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNBRC0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Design A “Smart” House
Design and create a play-sized, interactive dream home. Build your house from recycled materials and use a micro-controller to customize it with light, sound, and sensors. Take your house home!

WHEN: Mon–Fri; Aug 5–Aug 9; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNDSH0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Blow It Up!
Make exploding baggies, make art by popping balloons, check out dry ice, and experiment with different kinds of rockets in this exciting class.

WHEN: Mon–Fri; Aug 5–Aug 9; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNBIU0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

TEENS

3D Worlds
Enter the world of 3D design, game making, and programming. Learn how to rig models, create animations, and build interactive games using a variety of programs you can download at home.

WHEN: Mon–Fri; Aug 5–Aug 9; 1:00 PM–4:00 PM
AGES: 13–16
CODE: YTTTDW0805
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 10: August 12–August 16

FULL DAY

**STAR: Fit, Find, & Figure Out**

Investigate the skills of puzzling through Science, Theater, and Art in this unique collaborative camp. Piece together artistic solutions to everyday challenges and repurpose pieces into a whole through sculpture, collage, and mosaic techniques. Problem-solve the many puzzling components of creating and performing an original play. Try out the methods inventors, computer scientists, and archaeologists use to solve real-life puzzles. **STAR Collective is a collaboration between the Science Museum, SteppingStone Theatre, and COMPAS.**

**WHEN:** Mon–Fri; Aug 12–Aug 16; 8:30 AM–4:30 PM

**AGES:** 6–12

**CODE:** YDSEC0812

**FEE:** $349 all

**PLACE:** Science Museum (Education Entrance)

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**Camp Contraptions**

Experiment with materials, tools, levers, pulleys, and gears to create art in motion. Share engineering solutions to daily design challenges, whether you need to make a zipline or safely drop an egg. Explore the effects of gravity, angle, velocity, and friction. Design and assemble a long chain-reaction machine. Incorporate the knowledge of motion you have developed during the week to propel the action to a boisterous finale! Share films of the event online.

**WHEN:** Mon–Fri; Aug 12–Aug 16; 8:00 AM–4:00 PM

**AGES:** 9–12

**CODE:** YDCCO0812

**FEE:** $367, $349 mbr

**PLACE:** Metropolitan State University (map will be sent before camp)

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**SciGirls Camp**

Develop and conduct investigations using science inquiry with girls who are passionate about science! Try your hand at engineering marble runs and forts. Compare ingredients and procedures to design a better Slime recipe. Take inspiration from TPT’s SciGirls to investigate light pollution and constellations. Research the effect of multi-tasking on our ability to concentrate as you learn about the work of awesome female scientists.

**WHEN:** Mon–Fri; Aug 12–Aug 16; 8:00 AM–4:00 PM

**AGES:** 9–12

**CODE:** YDSCC0812

**FEE:** $367, $349 mbr

**PLACE:** Metropolitan State University (map will be sent before camp)

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Campers will handle and/or consume food in this course.
AGES 6–8

Wizard School
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand. ♫

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXWIZ0812
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

CSI: Clues & Stuff Investigators
Grab your magnifying glass and your microscope and join the Science Museum’s very own CSI team. We’ll work together to solve cases throughout the week using fiber, sound, chemical, and other types of evidence analysis. Learn how we can use observations and logic to solve the mysteries we encounter every day. Previously titled Detective Science.

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXCSI0812
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Robots and Rockets
Find out what robots can and cannot do, make a robotic arm, and control a robot. Experiment with propulsion and make different kinds of rockets.

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXRAN0812
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Secret Hiding Places
Hide your secrets in plain sight. Make trap doors, camouflage an object, and draw maps to reveal their location. Hunt the final treasure by following a trail of clues.

WHEN: Mon–Fri; Aug 12–Aug 16; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXSHP0812
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Lots and Lots of Rocks
Study sand, pebbles, minerals, and rocks from Antarctica to Minnesota. Learn how they are formed and where they can be found. Start your own collection and organize and display your finds.

WHEN: Mon–Fri; Aug 12–Aug 16; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXLOR0812
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

“My kids are SO confident in using tools (and in being safe with them). I love that they know they can make the world around them a different, and better, place thanks to their camp experience.”

Campers will handle and/or consume food in this course.
Week 10: August 12–August 16

AGES 9–12

Upcycled Treasures
NEW! Don’t throw it out! Turn that old t-shirt into your favorite tote bag, transform plastic into wearable art, and more. Design and experiment with new ways to “upcycle” different materials to create unique treasures by reusing, revamping, and recycling each day.

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNUPT0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Digital Flix
Explore the world of film production! You can be a director, actor, cinematographer, and producer of your films and a team film project! Record movies using a digital video camera, then use software to edit it. Post it online to share with your friends. 🎥

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNFLA0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

3D Animation
Take your drawing skills to the next level: see the world as a 3D animator! Create a character and learn 3D animation techniques using both hands-on materials and digital programs. Hone your skills and ingenuity as you create a final animation project.

WHEN: Mon–Fri; Aug 12–Aug 16; 1:00 PM–4:00 PM
AGES: 9–12
CODE: LNTDA0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Wizard School
Explore the science in potions, magic tricks, and other wizarding secrets. Complete challenges to earn house points. Test your skills with feats from each professor. Create a light-up wand that would make Ollivander proud. 🎥

WHEN: Mon–Fri; Aug 12–Aug 16; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWIZ0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Intro to Chemistry
Enter the exciting world of chemistry! Distill a scent, engineer hot and cold packs, and check out colored fire. Discover the seven signs of chemical reactions.

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNITC0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

What’s Up, Doc?
Investigate parts of the human body and its systems to find out what they do to keep you healthy, breathing, growing, thinking, and moving. Scope out common bacteria and investigate how to combat them. Explore what medical professionals can do to treat and heal diseases and injuries.

WHEN: Mon–Fri; Aug 12–Aug 16; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWUD0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Design A Computer Game: Create Your Own Adventure Game
Build your own interactive game or story using programming software from the MIT Media Lab called Scratch. Select a theme, write a story, build an environment, create characters, then add puzzles and sound effects.

WHEN: Mon–Fri; Aug 12–Aug 16; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNDCG0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Digital Flix
Explore the world of film production! You can be a director, actor, cinematographer, and producer of your films and a team film project! Record movies using a digital video camera, then use software to edit it. Post it online to share with your friends. 🎥

WHEN: Mon–Fri; Aug 12–Aug 16; 1:00 PM–4:00 PM
AGES: 9–12
CODE: LNFLP0812
FEE: $188, $179 mbr
PLACE: Science Museum
(Education Entrance)

Campers will handle and/or consume food in this course.
Week 11: August 19–August 23

PRESCHOOL

Preschool Science: Kitchen Chemistry
Measure, mix, and bake pretzels and cookies. Pop popcorn and make a drink in your in-house “laboratory.” Not recommended for children with food allergies. 🌟
AGES: 3–5
WHEN: Mon–Fri; Aug 19–Aug 23; 8:45 AM–9:45 AM
CODE: YPKCM0819
FEE: $68, $65 mbr
PLACE: Science Museum (Education Entrance)

AGES: 5–6
WHEN: Mon–Fri; Aug 19–Aug 23; 10:00 AM–11:45 AM
CODE: YRKCM0819
FEE: $126, $120 mbr
PLACE: Science Museum (Education Entrance)

AGES 6–8

Calling All Marine Biologists
Probe the depths of the sea and explore the variety of life in the ocean. See a squid from the inside out while dissecting. Discover ocean habitats, build a coral reef model, and get swallowed up by a giant whale! 🌟
WHEN: Mon–Fri; Aug 19–Aug 23; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXCMB0819
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Super Scratch
Create your own simple interactive animations, learn the basics of computer programming, and design a simple computer game using Scratch Junior. Create your own board game as you discover basic programming principles.
WHEN: Mon–Fri; Aug 19–Aug 23; 9:00 AM–12:00 PM
AGES: 6–8
CODE: LXSUP0819
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

LEGO Castles
Learn about medieval technology as you build drawbridges, catapults, and a castle using LEGO Technic pieces.
WHEN: Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXLGC0819
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Sunsational Solar Power
Power up with sunlight, no batteries here. Experiment with the sun’s ability to heat, move, and change things. Discover how this energy flows through plants, animals, and us. Capture the power of the sun in everything you make this week.
WHEN: Mon–Fri; Aug 19–Aug 23; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXSUN0819
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Wizard School
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand. 🌟
WHEN: Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXWIZ0819
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Mini Minecraft
Bring the world of Minecraft to life. Craft custom costumes and objects. Mine ores and see real world minerals. Pick up some real rock knowledge. NOTE: We will not play the Minecraft game during this camp.
WHEN: Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXMIM0819
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

🌟 Campers will handle and/or consume food in this course.
Week 11: August 19–August 23

**AGES 9–12**

**T-Shirt Artists**
Make custom images to print on t-shirts using screenprinting, stencils, and other advanced techniques. Work with glow-in-the-dark, metallic, and neon inks! Bring 3–5 100% cotton t-shirts and a bandana-sized piece of fabric to work on.

**WHEN:** Mon–Fri; Aug 19–Aug 23; 9:00 AM–12:00 PM

**AGES:** 9–12

**CODE:** YNTSA0819

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Design A Computer Game: Create Your Own Adventure Game**
Build your own interactive game or story using programming software from the MIT Media Lab called Scratch. Select a theme, write a story, build an environment, create characters, then add puzzles and sound effects.

**WHEN:** Mon–Fri; Aug 19–Aug 23; 9:00 AM–12:00 PM

**AGES:** 9–12

**CODE:** LNDCG0819

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Design A “Smart” House**
Design and create a play-sized, interactive dream home. Build your house from recycled materials and use a micro-controller to customize it with light, sound, and sensors. Take your house home!

**WHEN:** Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM

**AGES:** 9–12

**CODE:** YNDSH0819

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**Calling All Marine Biologists**
Probe the depths of the sea and explore the variety of life in the ocean. See a squid from the inside out while dissecting. Discover ocean habitats, build a coral reef model, and get swallowed up by a giant whale!

**WHEN:** Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM

**AGES:** 9–12

**CODE:** YNCMB0819

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**App, Build, Code**
Quit playing someone else's boring app and design your own! Build an app using custom graphics and sound that can tap into an Android device's built-in touchscreen, accelerometer, and camera to create a truly interactive experience. Upload an app to the Google Play Store to share with friends.

**WHEN:** Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM

**AGES:** 9–12

**CODE:** LNABC0819

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

**TEENS**

**T-Shirt Artists**
Make custom images to print on t-shirts using screenprinting, stencils, and other advanced techniques. Work with glow-in-the-dark, metallic, and neon inks! Bring 3–5 100% cotton t-shirts and a bandana-sized piece of fabric to work on.

**WHEN:** Mon–Fri; Aug 19–Aug 23; 1:00 PM–4:00 PM

**AGES:** 13–16

**CODE:** YTTSA0819

**FEE:** $188, $179 mbr

**PLACE:** Science Museum (Education Entrance)

*Camper will handle and/or consume food in this course.*
Week 12: August 26–August 30

AGES 6–8

Calling All Marine Biologists
Probe the depths of the sea and explore the variety of life in the ocean. See a squid from the inside out while dissecting. Discover ocean habitats, build a coral reef model, and get swallowed up by a giant whale! 🦑

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXCMBO826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Marble Run Engineering
Get rolling! Use your imagination to design a marble run with twists and turns - maybe even defy gravity. Build tracks, raceways, and challenges for your marbles. Experiment with physics and probability. Create, test, and improve your creations throughout the week.

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXMREO826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

LEGO Amusement Park
Learn about simple machines such as gears and pulleys while making models of rides that move. At the end of the week, we’ll combine projects and make an amusement park for LEGO Minifigures.

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXLAP0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Wizard School
Perform science that looks like magic and amaze your friends and family! Create potions that engage all your senses and make objects levitate in midair. Get sorted into a house and earn your magic wand. 🦹

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXWIZ0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Carpentry: Art-Pentry
NEW! Explore where art meets carpentry! Use hammers, saws, and drills to build gadgets that allow you to create unique masterpieces in unexpected ways.

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXCAP0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

LEGO Machines and Structures
Learn new LEGO building techniques to make machines that move and structures that can bear weight.

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 6–8
CODE: YXLMS0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Reaction Lab
Get ready to think like a scientist as you create chemical reactions, experiment with dry ice, engineer a slow roller game, and explore motion. Previously titled Mad Scientist’s Lab

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXRLB0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Code A Bot
Use a unique coding system to program a mini robot called an Ozobot. Make Ozobot dance, do tricks, and work together with other Ozobots. Create costumes and design a neighborhood for your Ozobot. Your ideas make the Ozobot move and groove!

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 6–8
CODE: YXCB0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Campers will handle and/or consume food in this course.
Week 12: August 26–August 30

AGES 9–12

Maker: Carpentry
Learn by doing! Pick up your tools and spend a week making projects in the carpentry workshop. Build marble mazes and games. Finish the week building your own design to take home.

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNMCPO826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Scratch State Fair Midway
Recreate your favorite attractions from the Midway at the State Fair. Use the LEGO WeDo sensors and MIT's Scratch software to perceive the ring toss accuracy or activate the dunk tank. Post video of your projects online.

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 9–12
CODE: LNSMW0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Wizard School
Explore the science in potions, magic tricks, and other wizarding secrets. Complete challenges to earn house points. Test your skills with feats from each professor. Create a light-up wand that would make Ollivander proud.

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNWIZ0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Intro to Chemistry
Enter the exciting world of chemistry! Distill a scent, engineer hot and cold packs, and check out colored fire. Discover the seven signs of chemical reactions.

WHEN: Mon–Fri; Aug 26–Aug 30; 9:00 AM–12:00 PM
AGES: 9–12
CODE: YNITC0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Calling All Marine Biologists
(insert: food logo)
Probe the depths of the sea and explore the variety of life in the ocean. See a squid from the inside out while dissecting. Discover ocean habitats, build a coral reef model, and get swallowed up by a giant whale!

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNCMB0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)

Disease Detectives
See how diseases spread and examine the body’s immune system. Grow bacterial cultures and observe them microscopically. Simulate epidemics and be on the team of scientists fighting disease outbreaks.

WHEN: Mon–Fri; Aug 26–Aug 30; 1:00 PM–4:00 PM
AGES: 9–12
CODE: YNDIS0826
FEE: $188, $179 mbr
PLACE: Science Museum (Education Entrance)
Registration Form

1. PARENT INFO
   - Name
   - Address
   - Work phone
   - Home phone
   - Cell phone
   - Email (to receive confirmation)

2. EMERGENCY CONTACT OTHER THAN A PARENT
   - Name
   - Relationship
   - Home phone
   - Work phone
   - Cell phone

3. CHILD INFO
   - Name
   - Birth date
   - Age
   - Gender (F/M)
   - Special needs

4. PROGRAM SELECTION
   - Date
   - Course code
   - Time
   - Course or item title
   - Participant's name
   - Wait list?
   - Price

5. PAYMENT INFO
   - Card type
   - Exp. date
   - Voucher #
   - Subtotal
   - Add membership
   - Total

COMMENTS

Subtotal ____________________Voucher#________Amt ________Subtotal ____________________Add membership _____________Total _______________________
APPLY FOR A SCHOLARSHIP TODAY!

Scholarships are distributed through a random lottery.
• Drawings begin when registration opens for members Feb 12th.
• You will be contacted if your family is selected.
• Apply only once, drawings continue until all funds have been distributed.
• If you are NOT selected, your payment will NOT be processed.
• No payments are processed unless a scholarship has been awarded, and you will be contacted before your payment is processed.

TWO TYPES OF SCHOLARSHIPS

85% Scholarships
The amount you pay equals the member price x .15. Available to families receiving public assistance (See programs in Section “A” below)

50% Scholarships
The amount you pay equals the member price x .50. Available to families needing financial assistance. For more information, call (651) 221-4511.

HOW TO APPLY

1. Complete the one-page scholarship application. Your application cannot be processed without proof of assistance or a copy of the first page of your latest tax return. Please black out any social security or account numbers.

2. Complete a registration form (p. 34), be sure to list a second choice in case your first choice is full.

3. Enclose payment, preferably check or credit card. If no funds are available or the class is full, your payment and documents will not be processed and shredded.

4. Send scholarship application, financial information, class registration, and payment to Summer Camp Programs, Science Museum of Minnesota, 120 West Kellogg Blvd., Saint Paul, MN 55102.

Please note that the refund policies listed in the catalog apply to scholarship co-payments. See smm.org or call (651) 221-4511 for complete policies.

FINANCIAL INFORMATION. FILL OUT SECTION A – OR – SECTION B.

SECTION A
Our family receives public assistance. We are applying for a scholarship for 85% of class fee.

Check all that apply:
☐ TANF
☐ MFIP
☐ General Assistance
☐ WIC
☐ Medicaid or Medical Assistance
☐ SSI
☐ Food Stamps
☐ Section 8 housing
☐ MN Care
☐ Free or Reduced Price School Meals

You must send proof of current enrollment in one of these programs. Please black out any social security numbers.

SECTION B
Our family does not receive public assistance. We are applying for a scholarship for 50% of the class fee.

1. Please provide the following information:

$___________ Monthly gross

$___________ Spouse’s monthly gross

$___________ Other income (child or spousal support, student grants)

$___________ Total family income (past year)

2. Additional financial information:
You must send a copy of the first page of your latest tax return (or other statement of income if no tax return is available). Please black out any social security numbers.
**General Policies and Procedures**

One week before camp your begins, you will receive an email with important information about the following:

**Waivers**
ALL PARTICIPANTS MUST HAVE A WAIVER SIGNED BY A PARENT/GUARDIAN SUBMITTED THE FIRST DAY OF CAMP. Anyone who registers online agrees to the waiver as part of the registration process. Those who register by phone will receive a follow-up email requesting that they electronically sign this waiver on our website. Only one waiver per participant is required. A copy of the waiver is available online at smm.org/classes.

**Health Information**
If your child has a medical condition, severe allergy, dietary restrictions, or other special need, please note this during your registration. Fields used to outline any special needs are designated on both online and paper forms. If you have special concerns, please call (651) 221-4511.

**Drop Off and Pick Up**
You will receive a Child Verification Card via email. This card must be clearly displayed in order to pick up a child. You can drop off/pick up your child at our education entrance up to 30 minutes before/after their program, free of charge. If your camp is off-site (at St. Catherine’s or Metropolitan State University) your camp communication email will include specific information about that site and a map for drop off and pick up.

**Cancellation Policy**
1. ALL CLASS RESERVATIONS ARE NONREFUNDABLE. No cash or credit card refunds are issued for program orders. If you need to cancel, you must call 14 days before the start of the program in order to transfer to a future program OR have a credit placed on your Science Museum account for the full value of the class. This credit can be used for future camps, birthday parties, or memberships; the credit cannot be used for admission to the Omnitheater, Special Exhibits, or General Exhibits. No transfers or credits for orders cancelled within 14 days of the program start date. Account credits do not expire, they will stay on your account until used. Account credits cannot be transferred to other accounts.
2. IF WE CANCEL A PROGRAM: If a minimum enrollment has not been reached one week prior to the first session, we must cancel the program. Customers will be contacted by telephone and we will suggest alternate classes. If we are unable to accommodate a suitable transfer, we will issue a full refund.

**Student Safety and Responsibility**
The Science Museum is responsible for students’ safety during scheduled program time. We do not release unchaperoned students from programs due to issues of safety and liability. Exceptions will be made for students leaving the museum to meet parents or ride a bus home. Written permission releasing the child must be provided by a parent or guardian.

**Behavior Policy**
In order to make the experience of our programs a positive one for all students and staff, we have established a policy to manage behavior incidents that involve chronic disruption of classes and/or safety. We reserve the right to remove students who do not adhere to our behavior policy which is available available online at smm.org/classes/policies.

**Lunch**
If your child is attending camp all day, lunch supervision is provided at no extra charge. Campers must bring a bag lunch with a drink. No refrigeration is available. Campers are not allowed to use the vending machines or museum restaurants.

**Snacks**
All camps include a 15 minute snack/play break. Due to allergies and dietary restrictions, the Science Museum does not provide snacks to campers. Please send snacks in your child’s lunch bag if you so choose.

**What to Bring and Wear**
The museum is not responsible for lost, missing, or damaged personal items. • If attending camps or classes all day, bring a bag lunch and a drink. • Wear close-toed shoes and comfortable clothing that can get messy. • Shoes with wheels are prohibited at the museum and in museum programs. • Please leave valuables like collectible cards and personal electronics at home. • If your child has an inhaler or epi pen, please have a method for them to keep it on them at all times and note it on your registration form.

**Extended Care**
**MORNING EXTENDED CARE** costs $7 per day, per child. Care begins at 7:30 a.m. and goes until the program start time. Please note: Morning extended care is not available at offsite locations. Full day or morning camp must be purchased to access morning extended care.

**AFTERNOON EXTENDED CARE** costs $7 per day, per child. Care begins at the program end time and concludes at 5:30 p.m. at the Science Museum, or 5:00 p.m. at offsite locations. Full day or afternoon camp must be purchased to access afternoon extended care.

**EXTENDED CARE PUNCH CARDS:** You can purchase a 5 punch extended care card for $35. Each punch equals one morning OR one afternoon session of extended care per child. Your card is kept on file and punched as you use it. Leftover punches can be used at a later date within the same summer. Punch cards can be purchased online, on your mailed/faxed registration form, or in person. Purchase codes are at smm.org/classes — click on “keywords” and select extended care.

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**Summer Adventures at Warner Nature Center**

**JUNE 24–AUGUST 15, 2019 • AGES 3½–14**

Registration begins Tuesday, Feb. 5 at 9:00 a.m.
Call 651-433-2427 ext. 10 (no online reservation).

Catalog available at warnernaturecenter.org/camps

Price range: $45–$225 • Scholarships available • Transportation is available to and from Warner Nature Center and the Science Museum of Minnesota.

**Building lasting relationships between people and the natural world**

15375 Norell Avenue North, Marine on St. Croix, MN (20 min. north of Stillwater)
EXPERTS IN THE FIELD OF FUN-OLOGY*

AND ALL SORTS OF -OLOGIES!

MEET OUR TEAM — Our instructors, managers, registrars, materials staff, and program specialists all work together to create fun and educational summer experiences for campers. Top Row: Culhane Cole, Vincent Harrison, Emily Poster, Sam Horak, Tracy McMan, Farzad Sadjadi, Brendan Rhode; Middle Row: Becky Hill, Sue Meyer, Janet Groenert, Jan Effmann, Eli Skinner, Jessica Holm, Emilie Stallman, Eugene the Skeleton, Julie Marckel; Bottom Row: Michelle Richardson, Kelley Meister, Sam Glick, Karla Ollanketo, Peter Anderson, Gretchen Henke; Not Pictured: Andy Chambers, Larry Thomas, Kalia Vue, seasonal staff of counselors, assistants, team leads and instructors who make our summer camp program possible.