

SUMMER CAMPS 2019



Registration Information

January 28: Innovators Club* registration begins.

January 30: Member registration begins.

February 6: Public registration begins.

Two Ways to Register:

- 1 Register online at **theworks.org**.
- 2 Download a printable registration form at **theworks.org**; bring in person or mail to The Works Museum

Scholarships:

A limited number of 50% and 25% scholarships are available, based on need. To apply, download an application at **theworks.org**.

HINT: If you're registering for 2 or more camps, an Innovators Club membership could save you money. See details at **theworks.org/support-us/innovators-club/*

Combined Camps

- Combine morning and afternoon camps for a full day. Lunch supervision is provided free of charge.
- Add a Friday Fun Day (see page 15) to create a 5-day camp experience.

Drop-off, Pick-up, and Aftercare

Drop-off: 8:30-9:00 a.m. or 12:30-1:00 p.m. **Pick-up:** 12:00-12:15 p.m. or 4:00-4:15 p.m.

Aftercare is available from 4:15-5:00 p.m. for campers attending a p.m. camp, \$10 per day. Add aftercare at registration or during your camper's week. Campers attending a morning camp only can pay for lunch supervision from 12:00-1:15 p.m., \$10 per day. Aftercare or lunch supervision is available at \$28 for a four-day package, online pre-registration only.

Refunds/Cancellation

If you cancel:

- 30 or more days before camp start date, 50% of the camp fee will be refunded OR you can receive a voucher for the full amount to be used for future camps.
- 14-29 days before camp start date, you will receive a voucher for the full amount.
- No refunds or vouchers will be issued within 13 days of camp start date.

If The Works Museum must cancel a program, we will refund the full fee.

More Details

- You will receive e-mail confirmation of your registration.
- Camper to staff ratio is 10:1 or lower. Meet our teachers and staff at **theworks.org**.
- Camps fill quickly. If the camp you want is full, sign up on the waitlist and watch our Facebook page and E-news for added sessions.
- If you have questions about registration, call 952.888.4262, ext. 212.

For children entering Kindergarten or High-Five programs in Fall 2019.

Make It With Cool Tools

\$165, \$148.50 members

Work with real tools such as saws, hammers, and drills as well as a variety of cool tools that squish, cut, and connect things.

M-Th, June 24-27, 9 a.m.-12 p.m.

M-Th, July 22-25, 9 a.m.-12 p.m.

Make It Float, Make It Sink

\$165, \$148.50 members

Have fun engineering with water: design and create bubble wands, a water cleaning factory, and boats.

M-Th, July 8-11, 9 a.m.-12 p.m.



New! Make It Squishy

\$165, \$148.50 members

Create and test messy mixtures, such as cloud dough. Make a balloon yo-yo and other squishy projects.

M-Th, June 10-13, 9 a.m.-12 p.m.

M-Th, August 19-22, 9 a.m.-12 p.m.

Make It Super Powered

\$165, \$148.50 members

Machines give us superpowers: Lift mighty objects with a crane, use levers to leap tall buildings, move at super speeds with wheels and axles, and even make a force field!

M-Th, August 5-8, 9 a.m.-12 p.m.



"Kids seem to come home asking more questions about the world!"

– Camp Parent

CAMPS FOR AGES 6-8

6-year-old campers must have completed Kindergarten.

Artistry In Motion

\$165, \$148.50 members

Construct tools, machines, and materials for creating art, including an electric doodle pen, a spin-art machine, and paint you formulate yourself.

M-Th, July 8-11, 1-4 p.m.

M-Th, August 5-8, 9 a.m.-12 p.m.

M-Th, August 19-22, 1-4 p.m.

Build It Bigger? Build It Better!

\$165, \$148.50 members

Design and build geodesic domes, skyscrapers, and other buildings with a variety of materials. Build a bridge to take home.

M-Th, July 8-11, 9 a.m.-12 p.m.

M-Th, July 29-August 1, 1-4 p.m.

Construct And Crash

\$165, \$148.50 members

Design, build, and test different kinds of cars, including building and testing K'Nex racers on our special ramp. Make a cool car to take home.

M-Th, June 17-20, 1-4 p.m.

New! Create With Carpentry:

Tabletop Pinball

\$165, \$148.50 members

Use carpentry skills to build a tabletop pinball machine. Design a theme, then add a launcher and traps.

M-Th, June 17-20, 9 a.m.-12 p.m.

Create With Carpentry:

Minecraft Characters

\$165, \$148.50 members

Use carpentry skills to build your own Minecraft character to take home: Choose a creeper, a cat, or a skin of your own design.

M-Th, July 22-25, 9 a.m.-12 p.m.

New! Engineer For Your Pets

\$165, \$148.50 members

Make a working model of a cat's claw. Engineer a mechanical pet toy and a scratching post. Design a way to rescue a pet from a tree. Pretend you're a veterinarian and put a cast on your stuffed animal.

M-Th, June 24-27, 1-4 p.m.

M-Th, August 19-22, 9 a.m.-12 p.m.



"My daughter came home happy and enthusiastic every day after camp at The Works and she could not wait to return the next day"

– Camp Parent

Fling, Float, Fly

\$165, \$148.50 members

Investigate how things move as you construct hovercrafts, mini-catapults, flying saucers, and rockets.

M-Th, June 10-13, 1-4 p.m.

Junior Robotics

\$165, \$148.50 members

Explore robotics concepts through games, wiring, and building. Make a maze for BeeBots and program them to navigate the maze. Bring home a Wigglebot that you design and wire.

M-Th, June 10-13, 9 a.m.-12 p.m.

M-Th, June 24-27, 1-4 p.m.

M-Th, July 15-18, 1-4 p.m.

M-Th, July 29-August 1, 9 a.m.-12 p.m.

M-Th, August 12-15, 9 a.m.-12 p.m.

M-Th, August 26-29, 1-4 p.m.

New! LEGO Architecture:

Skyscrapers

\$165, \$148.50 members

Make a cross-section of a model skyscraper, working with scale and model-making ideas. Solve design challenges for strong construction and add an elevator.

M-Th, June 10-13, 9 a.m.-12 p.m.



New! LEGO Architecture For Girls

\$165, \$148.50 members

Work with scale to create a model house or building of your choice. Solve design challenges for room sizes and strong construction. Add elements such as staircases and elevators.

M-Th, July 15-18, 1-4 p.m.

LEGO Engineering

\$165, \$148.50 members

Build elevators, wind-up cars, and catapults with specialty LEGO pieces. Explore with gears, pulleys, and other moving parts.

M-Th, June 24-27, 9 a.m.-12 p.m.

M-Th, July 8-11, 9 a.m.-12 p.m.

M-Th, July 15-18, 9 a.m.-12 p.m.

M-Th, August 5-8, 1-4 p.m.

M-Th, August 19-22, 9 a.m.-12 p.m.

CAMPS FOR AGES 6-8



LEGO Engineering For Girls

\$165, \$148.50 members

Same great LEGO Engineering camp, in a section for girls. Build elevators, wind-up cars, and catapults with specialty LEGO pieces. Explore with gears, pulleys and other moving parts.

M-Th, August 12-15, 1-4 p.m.

LEGO Pixel Pics

\$165, \$148.50 members

Combine your love of art, LEGO, and math. Practice making mosaic-like pictures using LEGO bricks and a grid.

M-Th, June 17-20, 1-4 p.m.

Once Upon An Engineer

\$165, \$148.50 members

Take on challenges found in favorite stories. Rescue characters from high towers and make escape machines to flee fire-breathing dragons. Build a huff-and-puff wind-proof house, and a box to hide treasure.

M-Th, July 15-18, 9 a.m.-12 p.m.

Rosie Revere, Engineer®

\$165, \$148.50 members

This camp for girls is inspired by Andrea Beaty's bestselling book, *Rosie Revere, Engineer*. Learn about female inventors and engineers. Create marvelous machines, wire LED creations, and solve engineering design challenges.

M-Th, June 24-27, 9 a.m.-12 p.m.

M-Th, August 5-8, 1-4 p.m.

Robocoding

\$190, \$171 members

Work in pairs to build little robots using special LEGO WeDo 2.0 pieces. Program your creations using iPads and programming software.

M-Th, June 17-20, 9 a.m.-12 p.m.

M-Th, July 8-11, 1-4 p.m.

M-Th, July 22-25, 1-4 p.m.

M-Th, August 5-8, 9 a.m.-12 p.m.

M-Th, August 19-22, 1-4 p.m.

Robocoding For Girls

\$190, \$171 members

Same great Robocoding camp, in a section for girls. Work in pairs to build little robots using special LEGO WeDo 2.0 pieces. Program your creations using iPads and programming software.

M-Th, June 10-13, 1-4 p.m.

M-Th, July 29-August 1, 9 a.m.-12 p.m.

July 4th Week:

**One-day Camps for ages 6-11
available on July 1 - 3. See page 15.**

Robocoding Level Up

\$190, \$171 members

For those who've completed Robocoding, use your skills to invent something new. Make a robotic hand and other projects using LEGO pieces, then work in pairs to program your creations using iPads and programming software.

M-Th, August 12-15, 9 a.m.-12 p.m.

"It's super fun and interesting and they don't necessarily realize that it's 'learning' at the same time"

– Camp Parent

Toy Design Lab

\$165, \$148.50 members

Take toys apart to see what's inside. Create toys that move. Build and play with tops. Mix up and test different kinds of slime and a bouncy ball.

M-Th, July 29-August 1, 1-4 p.m.

M-Th, August 26-29, 9 a.m.-12 p.m.

Tool Testers

\$165, \$148.50 members

Practice using real tools that squish, connect, and cut materials. Make fun projects that show off your new skills.

M-Th, August 12-15, 1-4 p.m.

New! STEAM Camp with Stages Theatre Company:

THE MAGIC AND MYSTERY SHOW
\$330, \$297 members

We're partnering with Stages Theatre Company for a unique full-day STEAM camp. Spend half of each day with Works Museum STEM educators exploring the science and engineering behind performing classic magic tricks and illusions. Spend the other half of the day with Stages teaching artists. Use their actor toolbox to create, solve, and perform a dramatic mystery full of zany characters.

M-Th, July 22-25, 9 a.m.- 4 p.m.



PAGE	CAMP NAME	June 10-13	June 17-20	June 24-27	July 1 2 3	July 8-11	July 15-18	July 22-25	July 29- Aug 1	Aug 5-8	Aug 12-15	Aug 19-22	Aug 26-29
		AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM
3	Make It With Cool Tools			AM				AM					
3	Make It Float, Make It Sink				AM								
3	Make It Squishy	AM								AM		AM	
3	Make It Super Powered									AM			
4	Artistry In Motion					PM				AM		PM	
4	Build It Bigger? Build It Better!				AM				PM				
4	Construct And Crash		PM										
4	Create with Carpentry: Tabletop Pinball		AM										
4	Create with Carpentry: Minecraft Characters						AM						
4	Engineer For Your Pets			PM								AM	
5	Fling, Float, Fly	PM											
5	Junior Robotics	AM		PM			PM		AM		AM		PM
5	LEGO Architecture: Skyscrapers	AM											
5	LEGO Architecture for Girls						PM						
5	LEGO Engineering			AM		AM	AM			PM		AM	
6	LEGO Engineering For Girls										PM		
6	LEGO Pixel Pics		PM										
6	Once Upon An Engineer						AM						
6	Rosie Revere, Engineer®			AM						PM			
6	Robocoding		AM			PM		PM		AM		PM	
6	Robocoding For Girls								AM				
7	Robocoding Level Up										AM		
7	Toy Design Lab												AM
7	Tool Testers											PM	
7	STEAM Camp with Stages Theatre							*					
10	Amusement Park Design	PM											PM
10	Architecture: Houses			PM									AM

PreK

Ages 6-8

PreK

Ages 6-8

CAMPS FOR AGES 9-11

Amusement Park Design

\$165, \$148.50 members

Design and build your own twirling motorized amusement park ride. Add switches, resistors, or a belt to customize your ride.

M-Th, June 10-13, 1-4 p.m.

M-Th, July 29-August 1, 1-4 p.m.

Architecture: Houses

\$165, \$148.50 members

Design and build a wood-frame model house. Wire it with switches and lights, then customize it with other features such as a ceiling fan or a doorbell.

M-Th, June 24-27, 1-4 p.m.

M-Th, July 29-August 1, 9 a.m.-12 p.m.

M-Th, August 26-29, 9 a.m.-12 p.m.

Carpentry 101:

Gumball Machine

\$165, \$148.50 members

Use carpentry skills to construct a machine that gives out gum or candy.

M-Th, June 17-20, 1-4 p.m.

M-Th, July 22-25, 1-4 p.m.

Code Camp I

\$190, \$171 members

Explore computer programming. Use a simple Raspberry Pi computer that fits in the palm of your hand. Use Python code to create mods for Minecraft.

M-Th, June 24-27, 9 a.m.-12 p.m.

M-Th, July 8-11, 9 a.m.-12 p.m.

M-Th, July 22-25, 9 a.m.-12 p.m.

M-Th, August 12-15, 1-4 p.m.

M-Th, August 19-22, 9 a.m.-12 p.m.





Code Camp I For Girls

\$190, \$171 members

Same Code Camp, in a section for girls. Explore computer programming with other girls your age. Use a simple Raspberry Pi computer that fits in the palm of your hand. Create mods for Minecraft using Python code.

M-Th, July 29-August 1, 1-4 p.m.

"There are unique topics that we can't get elsewhere. My son looks forward to the camps he'll be able to do as he gets older"

– Camp Parent

Code Camp Level Up: Hardware Challenge

\$190, \$171 members

For those who've completed Code Camp 1, continue your Python learning. Investigate Raspberry Pi hardware additions that allow you to input commands and output lights and noise to make music, quizzes, and games.

M-Th, August 5-8, 9 a.m.-12 p.m.

New! Famous Engineering Fails

\$165, \$148.50 members

How did the Titanic sink? Why do bridges collapse? Engineer and test your own boats and bridges to see where they fail. Construct a model building, test it with our earthquake table, then see if it can stand up to a tsunami or hurricane.

M-Th, June 24-27, 1-4 p.m.

M-Th, August 5-8, 9 a.m.-12 p.m.

New! Create Classic Games

\$165, \$148.50 members

Game on! Make your own versions of old-school games such as battling robots, "Plinko", and pinball machines.

M-Th, July 15-18, 1-4 p.m.

M-Th, August 19-22, 9 a.m.-12 p.m.

New! Design Pet Projects

\$165, \$148.50 members

Compare the biomechanics of cats and dogs from tongues to tails. Make a working model of a cat's claw.

Engineer a mechanical pet toy. Use tools to make a pet tag to take home.

M-Th, June 17-20, 9 a.m.-12 p.m.

M-Th, August 5-8, 1-4 p.m.

New! Home Hacks For Kids

\$165, \$148.50 members

Make a mini-vacuum cleaner. Work on a team to construct a model toilet. Design a working oven, then bake something in it to taste. Build other mechanical models of things people use every day.

M-Th, June 17-20, 9 a.m.-12 p.m.

M-Th, August 12-15, 9 a.m.-12 p.m.

CAMPS FOR AGES 9-11



LEGO Chain Reactions

\$165, \$148.50 members

Work with others to design and create a chain reaction machine, including elements such as dominoes, pendulums, pulley systems, spinners, levers, and launchers.

M-Th, July 8-11, 1-4 p.m.

M-Th, August 19-22, 1-4 p.m.

LEGO Robotics I

\$190, \$171 members

Design, build, and program robotic creations using the LEGO Mindstorms EV3 system. Write computer programs for your robot to complete missions.

M-Th, June 10-13, 9 a.m.-12 p.m.

M-Th, July 15-18, 9 a.m.-12 p.m.

M-Th, August 5-8, 1-4 p.m.

LEGO Robotics I For Girls

\$190, \$171 members

Same great LEGO Robotics 1 camp, in a section for girls. Work with other girls to build and program robotic creations using the LEGO Mindstorms EV3 system. Write computer programs for your robot to complete missions.

M-Th, July 8-11, 9 a.m.-12 p.m.

LEGO Robotics II

\$190, \$171 members

If you've taken LEGO Robotics 1 before and have the basics of LEGO Mindstorms down, this session is for you! Add sensors and programming to make a navigation bot and a ball-hunting rover.

M-Th, August 12-15, 9 a.m.-12 p.m.

July 4th Week:

**One-day Camps for ages 6-11
available on July 1 - 3. See page 15.**

LEGO Mechanical Engineering

\$165, \$148.50 members

Incorporate mechanics into LEGO building using our collection of bricks and specialty moving pieces.

M-Th, July 29-August 1, 9 a.m.-12 p.m.

Machine Mash-Up

\$165, \$148.50 members

Take apart electronics and other machines to see how they work, then use the parts to make other machines or Frankentoy.

M-Th, August 12-15, 1-4 p.m.

Mechanical Art Miniatures

\$165, \$148.50 members

Create an automata of your own design. Use mechanics to make a tiny figure move and tell a story when you turn a crank. Explore the work of artists who build automata.

M-Th, June 10-13, 9 a.m.-12 p.m.

M-Th, August 26-29, 1-4 p.m.

Slingshots And Hydraul-Bots

\$165, \$148.50 members

Explore air power and create air cannons, slingshots, and flying propellers. Combine wood and water power to design your own hydraulic bot to take home.

M-Th, June 24-27, 9 a.m.-12 p.m.

M-Th, July 15-18, 9 a.m.-12 p.m.

New! STEAM Camp with Stages Theatre Company:

THE MAGIC AND MYSTERY SHOW
\$330, \$297 members

We're partnering with Stages Theatre Company for a unique full-day STEAM camp. Spend half of each day with Works Museum STEM educators exploring the science and engineering behind performing classic magic tricks and illusions. Spend the other half of the day with Stages teaching artists. Use their actor toolbox to create, solve, and perform a dramatic mystery full of zany characters.

M-Th, July 22-25, 9 a.m.- 4 p.m.



CAMPS FOR AGES 11-13

New! Your Name In Lights

\$165, \$148.50 members

Get a taste of all the tools in our makerspace, *The Workshop*. Try your hand at woodworking, soldering, and Arduino programming to create a LED light up sign to take home.

M-Th, June 24-27, 1-4 p.m.

M-Th, August 12-15, 1-4 p.m.

New! Museum Designers

\$165, \$148.50 members

Learn what it takes to design museum exhibits. Collaborate to design and construct an interactive experience for kids to explore at The Works Museum.

M-Th, July 22-25, 1-4 p.m.

New! E-Textiles

\$165, \$148.50 members

Spend a week exploring tools and textiles in our makerspace, *The Workshop*. Learn to use a sewing machine and stitch together circuits using conductive thread. Create a light-up backpack, tote bag, or zippered pouch to take home.

M-Th, August 19-22, 1-4 p.m.

Programming camps with our partner, Code Savvy™

Beginning App Inventor with Code Savvy™

\$190, \$171 members

Create mobile apps with App Inventor programming language! Explore the basics of programming, testing, and debugging by building some simple apps, then design one of your own.

Apps created will only run on Android devices, but owning one is NOT required for camp.

M-Th, June 17-20, 1-4 p.m.

Minecraft MOD with Code Savvy™

\$190, \$171 members

Enhance your Minecraft skills with code! Create events, build structures, and add new items to the game. Test your creations in a browser simulator or your Minecraft PC account.

M-Th, July 15-18, 9 a.m.-12 p.m.

M-Th, August 12-15, 9 a.m.-12 p.m.

Advanced App Inventor with Code Savvy™

\$190, \$171 members

If you've taken Beginning App Inventor or participated in the Technovation Challenge, explore more advanced features of App Inventor! Explore using lists, arrays, and sensors and databases, then build you own app using these components.

Apps created will only run on Android devices, but owning one is NOT required for camp.

M-Th, July 29-August 1, 1-4 p.m.

New! Camps with Artistry

Theater and Visual Arts:

MAKE AND CREATE

\$165, \$148.50 members

We're partnering with Artistry to offer two camps exploring the collision of engineering and art! Make with Artistry teaching artists using cool tools and materials in *The Workshop*, create with Works Museum STEM educators in the studios at Artistry, or do both! Two organizations, two locations, two different camps — lots of fun.

M-Th, July 15-18, 1-4 p.m.

at The Works Museum. Register at theworks.org

M-Fri, August 5-9, 1-4 p.m.

at Artistry. Register at artistrymn.org

ONE DAY CAMPS FOR AGES 6-11

FRIDAY FUN DAYS

Add a Friday Fun Day to your camper's week or just come for the day.

Museum exploration, outdoor games, activities, and pizza are included.

6-year-olds must have completed Kindergarten.

\$79, \$71.10 members per day.

Camp Flingalot

Spend the whole day building catapults and other launchers, and test how far you can fling things.

July 19, 9 a.m.-4 p.m.

Extreme Cardboard Castles

Build life-sized forts with secret rooms and other amazing features.

July 12 OR August 16, 9 a.m.-4 p.m.

LEGO City of the Future

Create a future city. Flying cars? Rockets? Bring your imagination and make it a LEGO reality.

August 2, 9 a.m.-4 p.m.

Light, Lasers & Kaleidoscopes

Bounce and break light. Experiment with lasers and explore with our giant kaleidoscope. Make a kaleidoscope to take home.

June 28, 9 a.m.-4 p.m.

Roller Coasters & Marble Games

Engineer roller coasters for balls and marbles. Construct a marble maze game to take home.

August 9, 9 a.m.-4 p.m.

Slime-gineering

Concoct your own recipes using a variety of ingredients to mix up different kinds of slime.

June 14 OR August 23, 9 a.m.-4 p.m.

New! Superhero Tech

Make a light saber, a spiderweb shooter, and other superhero gear.

June 21 OR July 26, 9 a.m.-4 p.m.

JULY 4TH WEEK

ONE-DAY CAMPS FOR AGES 6-11.

6-year-olds must have completed Kindergarten. Pizza lunch included.

\$79, \$71.10 members per day.

LEGO City Of The Future

Create a future city. Flying cars? Rockets? Bring your imagination and make it a LEGO reality.

July 1, 9 a.m.-4 p.m.

Slime-gineering

Concoct your own recipes using a variety of ingredients to mix up different kinds of slime.

July 2, 9 a.m.-4 p.m.

Roller Coasters & Marble Games

Engineer roller coasters for balls and marbles. Construct a marble maze game to take home.

July 3, 9 a.m.-4 p.m.



**9740 GRAND AVE. S.
BLOOMINGTON, MN 55420**

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**REGISTRATION
DATES:
INNOVATORS
CLUB : 1/28
MEMBERS: 1/30
PUBLIC: 2/6**