STEM
CENTER USA

SUMMER 2026 CAMP CATALOG

CONTACT US:

Email: summer@STEMCenterUSA.com

**To learn more, visit us at
www.STEMCenterUSA.com/summer**

WHY STEM CENTER SUMMER CAMPS?

Kids learn best when they're having fun...and summer is the perfect time for that!

15 years of summer camp experience
- We know how to run the best STEM summer camps AND work to make them even better each year!
- We are a family-owned, small business that cares deeply about each student we work with. *We give this our all!*

High-quality, hands-on, engaging, & diverse offerings
- Course topics include robotics, game design, coding, electronics, and more!
- Hands-on, learn-by-doing & learn-through-play programs make for "aha!" moments & lifelong learning

Seriously AWESOME instructors
- Not only are they highly trained STEM instructors, but they are fun, engaging, and loved by our campers!
- Background checked at the DoJ level
- Extensive in-person camp management training
- Inspirational, collegiate instructors from various universities

Flexibility for your schedule
- Book one week, two weeks, or all nine!
- Half-day and full-day camp options in Claremont!
- FREE cancellation until March 1st

SUMMER CAMP LOCATIONS

In 2026, our Summer Camps will be offered at three different locations, as well as virtually! Look for the location icons next to each camp description to easily identify where each camp is being held.

(E R) **Claremont Camps at El Roble Intermediate School**
665 N Mountain Ave

(C) **STEM Center USA - Claremont** *(launching late Feb!)*
855 W Foothill Blvd

(R) **STEM Center USA - Rancho Cucamonga**
11799 Sebastian Way

(V) **Virtual Camps** *(launching late Feb!)*

Registering your campers is easy! Just follow these steps:

1. **Visit our website** **www.STEMCenterUSA.com/summer**

2. **Review the Camp Catalog (this!) and Camps-at-a-Glance Schedule.** Choose your camps and take note of them! This will help you find them when you go to the registration portal.

3. **Navigate to our Registration Portal.** **Sawyer Registration Portal**

4. **Filter camps** – Narrow your search (i.e. location, grade, date) to find the camps you want.

5. **Add the chosen camps** to your cart.

6. **Register & pay** – Click Register, then enter your email and password to proceed with payment and secure your camper's spot!
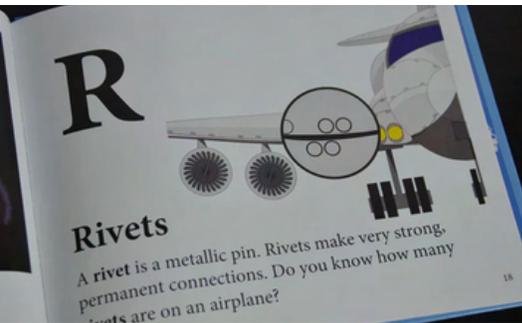
Early STEM

Early STEM Camp

ER C R

Learn through play! Early STEM focuses on nurturing students' curiosity through hands-on, learn-by-doing exploration of STEM concepts while also sparking students creativity and imagination. Our youngest STEM-ers will build and design simple machines while exploring tech concepts such as force, direction, pivots, pendulum, motion, and more! This high energy camp is perfect for young campers to fall in love with learning the basics of STEM, building, and make new friends. **Perfect for incoming Kinder and 1st graders. Minimum age 5!**

Sawyer Registration Portal

Text: **909-624-0624**   **www.STEMCenterUSA.com/summer**   **summer@STEMCenterUSA.com**

Junior STEM

1ST - 3RD

Jr Builders: Physics at Play! (E R) (R)

Learn through play! In Jr Builders: Physics at Play, our campers will discover the forces behind motion through hands-on experiments. Campers will explore balanced and unbalanced forces, push and pull mechanics, and the effects of friction as they build and test different vehicles and sports-themed models using the Lego BricQ platform. This camp is perfect for kids who love to explore, test, and uncover the secrets of physics in action!

(E R) (R) ## Jr Coders and Makers

Part coding, part crafting—this camp is perfect for young creators! Junior STEM Makers will learn-by-making as they dive into building, crafting, electronics, and explore the fundamentals of tools. Campers will also program with Scratch Junior, a beginner-friendly, block-based coding language that introduces students to coding. Projects are crafty and creative in nature, with multiple DIY take-home projects featured throughout the week.

SCRATCH Jr

Sawyer Registration Portal

Junior STEM

Jr Coding with Dash

Grades 2nd - 4th (E R) (R)

Dash is a one-eyed, friendly blue robot that is the perfect coding companion! Dash can do tricks, follow your voice, avoid obstacles, and so much more. In this camp, students will code Dash to do everything from changing colors to avoiding obstacles in their camp classroom (and around campus!). This camp is focused on developing student coding and problem-solving skills. Campers will learn the basics of block-based coding to bring Dash to life in their own unique, fun way!

Sawyer Registration Portal

Text: 909-624-0624   www.STEMCenterUSA.com/summer   summer@STEMCenterUSA.com

Junior STEM

LEGO SPIKE Essential

All Junior Robotics camps below use the LEGO SPIKE Essential platform for hands-on building and coding.

Jr Robotics: Amazing Amusement Park

(E R) (R)

Get ready for a thrilling adventure in engineering! Campers will design and build amazing amusement park rides like spinning carousels, speedy swings, and twirling teacups using the Lego Spike Essential platform. This creative, hands-on camp is perfect for young "Imagineers" to explore engineering and spark their imaginations!

(E R) Jr Robotics: Great Adventures

Dive into robotics by building robots that will take you on great adventures! Using simple machines and creative designs, campers will design structures, experiment with simple machines, and create robots to explore their classroom and beyond. A fun, hands-on way to spark curiosity and foundational coding skills!

Jr Robotics: Build-a-Bot ANIMALS Camp!

(E R) (R) **NEW!**

Let's build robots and explore animals! In this Junior STEM Robotics camp, students combine their love of animals with engineering as they learn how designers take inspiration from nature through biomimicry. Using LEGO robotics, campers will build and code animal-inspired robots like dancing seals, talkative parrots, and climbing creatures while developing coordination, building, and basic programming skills!

Sawyer Registration Portal

Text: 909-624-0624   www.STEMCenterUSA.com/summer   summer@STEMCenterUSA.com

Junior STEM

1ST - 3RD

Jr Robotics: SpaceBots (E R) (R)

3...2...1...blast off! This Junior STEM camp orbits all things space! Each day, students will explore another part of the galaxy as they build different space-themed robots using the LEGO WeDo 2.0 platform. From rovers to satellites, this camp is all about learn-through-play and is fun, engaging, and educational! We'll also talk about current space news, build planets with Snap Cubes, and more!

(E R) (R) Jr Robotics: Vehicles that Move!

Rev your engines! Let's make our own cars, trucks, trains, tanks, and more! Our Junior STEMers will enter the world of engineering and technology as they create, build, and test their own vehicles using the LEGO WeDo 2.0 platform. Campers will learn about the various systems involved in motor vehicle design and get a taste of mechanical engineering as they race and test their vehicles!
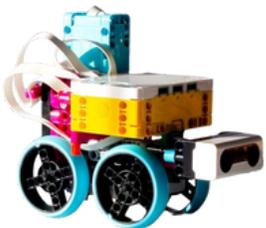
Jr Robotics: BattleBots (E R) (C) (R) NEW!

Build, code, and battle! We are so excited to offer a Junior version of one of our most popular Discover-level camps this year - BattleBots! Campers will build and program their own robots using the LEGO Spike Prime platform while learning how motors, sensors, and code all work together. The ultimate goal by the end of the week is to prepare for a sumo-style robot battle against their classmates! This is a high-energy camp that encourages supportive competition and celebrates creativity and problem-solving.

Sawyer Registration Portal

Discover STEM

2ND - 5TH

Robot Play Lab: Coding in Action

ER C **NEW!**

Do you love robots? How about ones that talk, follow you, change colors, and more! This camp features some of the most popular, exciting robots out there! Students will learn about the robots' sensors, programming interface, and then take part in a series of coding challenges. This course will explore programming with Finch, Ozobot Evo, and Bolt!

Sawyer Registration Portal

Text: 909-624-0624   **www.STEMCenterUSA.com/summer**   **summer@STEMCenterUSA.com**

Discover STEM

Lego BattleBots and Coding
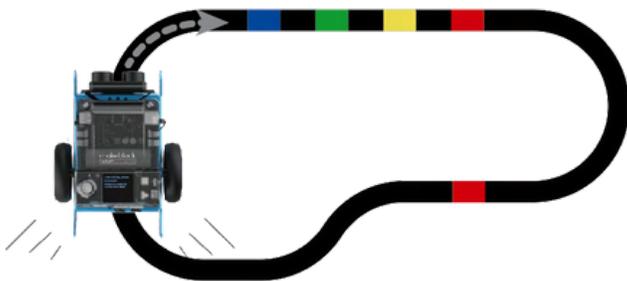
E R **R**

Get ready for high-energy fun with Lego BattleBots! Campers will use Lego Mindstorms EV3 to build robots that play sounds, detect obstacles, and compete in sumo battles. Along the way, they'll learn drag-and-drop coding, develop fine motor skills, and spark creativity and critical thinking. Each year, this camp is our most popular and exhilarating camp of the summer!

Discover Robotics: Take-Home mBot

E R **R**

The mBot is perfect for beginners to dive into robotics and programming! Campers will build their own robot from scratch, learn about sensors, robotic machinery, and block-based programming through fun challenges. They may also experiment with programming LEDs, changing colors based on speed, following tracks, and text-to-speech blocks. Best of all, they'll take home their mBot to continue exploring and developing their skills beyond the classroom!

Sawyer Registration Portal

Text: **909-624-0624**   **www.STEMCenterUSA.com/summer**   **summer@STEMCenterUSA.com**

Discover STEM

Creative Coding, Electronics, and Robotics

E R **R**

Uncover the magic behind robotics in this hands-on, creative camp! Campers will use raw sensors, microcontrollers, and recyclable materials to design and build unique robots. They'll light up LEDs, program sensors, and control motors to bring their creations to life. A perfect blend of tech and crafts!

MINECRAFT EDUCATION

Both Minecraft Game Design camps below include shared introductory lessons during the first two days to build core Minecraft and coding skills.

E R **R** ## Minecraft Game Design Alpha

Love Minecraft? Take your skills to the next level by designing and building your own games! Campers will learn game design basics, create unique environments and adventures, and code with command blocks to enhance gameplay. From storyboarding ideas to crafting maps and characters, this camp blends creativity and STEM in your favorite game interface!

Minecraft Game Design Beta **E R**

Already mastered the basics? Take your Minecraft game design skills even further in this advanced camp! Designed for students who've completed Minecraft Alpha, this session focuses on expanding coding abilities, building custom maps, designing original characters, and creating resource packs with command blocks. Get ready to push creativity and STEM knowledge to the next level!

Sawyer Registration Portal

Text: 909-624-0624   **www.STEMCenterUSA.com/summer**   **summer@STEMCenterUSA.com**

Discover STEM

4TH - 8TH

3D World Building in VR   (E R)

Step into a new dimension and build your own virtual world! In this 3D World Building in VR camp, campers will use Delightex and block based coding to design 3D characters, environments, and interactive scenes. Students will bring their creations to life by coding movement and interactions, building games and escape rooms, and exploring their worlds in immersive 360 degree virtual reality. Campers will even experience their projects using a take home cardboard VR headset.

(E R) (R)   Lego Robotics Challenge Camp

NEW!

Ready to take your LEGO robotics skills to the next level? In LEGO Robotics Challenge Camp, students will work in small teams to design, build, and code robots using LEGO SPIKE Prime. Campers will test, analyze, and improve their robots as they take on competition style challenges throughout the week, building teamwork, strategy, and creative problem solving in a fun, supportive environment.

Stop Motion Animation   (E R) (R)   **NEW!**

Bring stories to life through animation! In this Stop Motion Animation camp, students will learn the basics of frame-by-frame animation using the Stop Motion Studio app. Campers will create mini movies with themed sets, paper characters, and simple special effects while exploring creative storytelling and cinematic movement. No prior experience is needed, and all materials and devices are provided!
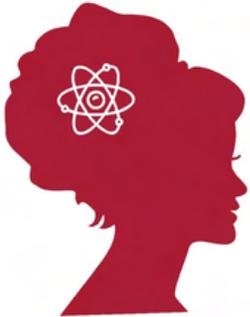
Sawyer Registration Portal

Text: 909-624-0624   **www.STEMCenterUSA.com/summer**   **summer@STEMCenterUSA.com**
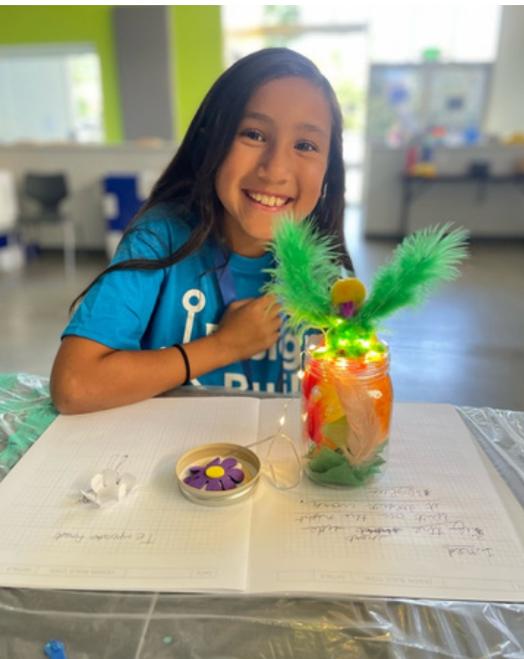
Discover STEM

4TH - 8TH

Girls' Week (E R)

Girls' Week is an all-girls camp designed to inspire and empower incoming 4th-8th grade girls in STEM! Led by an all-women staff, campers will explore a mix of creative DIY projects and robotics, including building and programming robots. This unique stand-alone camp fosters a fun, supportive environment to celebrate and encourage the future of young women in STEM!

Sawyer Registration Portal

📞 *Text:* **909-624-0624**   🌐 **www.STEMCenterUSA.com/summer**   ✉️ **summer@STEMCenterUSA.com**
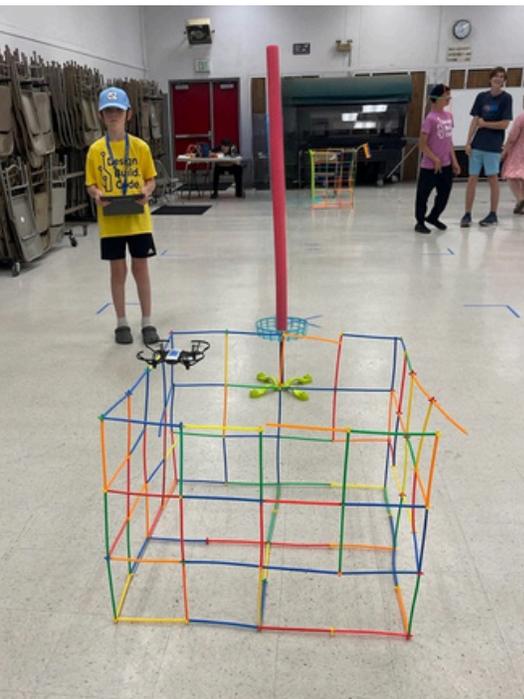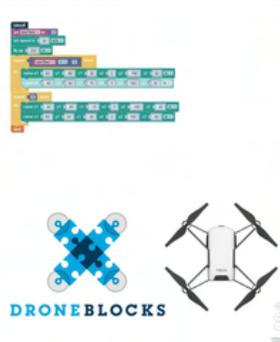
Discover STEM

Drone Camp (E R) (R)

Calling all future aviators, coders, and innovators! At Drone Camp, campers will explore the world of drones by learning about safety, local regulations, and mastering both manual control and coding. Using a drag-and-drop system on iPads called DroneBlocks, they'll program drones to perform exciting maneuvers. It's a high-flying, fun-filled adventure into drone technology!

Sawyer Registration Portal

Text: 909-624-0624   www.STEMCenterUSA.com/summer   summer@STEMCenterUSA.com

Intermediate STEM

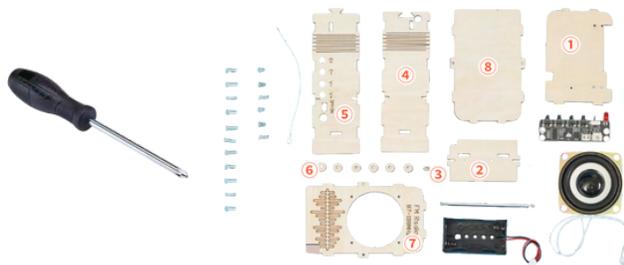## Retro Arcade Game Studio

E R · R · **NEW!**

Build, code, and play your own retro games! In Retro Arcade Game Studio, students will use Microsoft MakeCode Arcade and the Retro Arcade handheld to design and program classic style games. Campers will code projects like pixel art name tags, Hungry Pacman, and Dodge the Shark while bringing their games to life on real, playable hardware!

C Electronics 101 - Circuits & Raspberry Pi

Ever wondered how electronics power the world around us? In Electronics 101: Circuits & Raspberry Pi, campers will prototype circuits using breadboards, LEDs, resistors, and sensors while learning how electronic components work together. Students will then use Raspberry Pi Pico to code their circuits, adding buttons, switches, and inputs to complete fun hands on challenges. This camp is perfect for curious builders who love to tinker, experiment, and create.

Sawyer Registration Portal

Text: 909-624-0624 · www.STEMCenterUSA.com/summer · summer@STEMCenterUSA.com

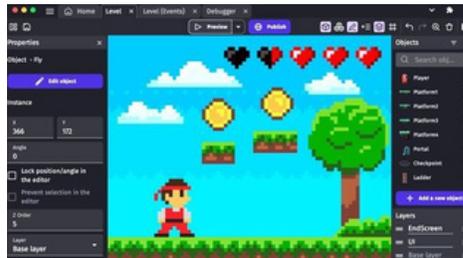# Intermediate STEM

5TH - 8TH

8-Bit Game Creation

E R R **NEW!**

Create classic games with a modern twist! Explore the world of 8-bit game design by learning how to create interactive games using pixel art and the GDevelop engine. Students will explore classic pixel graphics, design custom characters and animations using tools like Piskel. Projects include an "About Me" interactive experience, a Cookie Clicker-style game, and a fully playable Endless Runner platformer game. This game design course builds creativity, problem-solving, and digital storytelling through making games!

E R R Minecraft Modding

Calling all Minecraft enthusiasts! In this exciting Minecraft Modding camp, students will dive deeper into the world of coding by creating their own custom Minecraft mods. Campers will design custom blocks, items, creatures, and even game mechanics to bring their unique ideas to life. Join us for an unforgettable camp where learning meets gaming!

Sawyer Registration Portal

Frequently Asked Questions

We know choosing the right summer camp is an important decision for your family. Below you'll find answers to some of the most common questions about our Summer 2026 Camps. If you still need help, we're always happy to assist!

▶ **Will my child be working in a group or individually?**

A mix! Most Early STEM and Junior students work individually. 80% of Discover STEM students work individually. Some select Discover camps have teams of 2-3 students.

▶ **Can I see what my child is doing during camp?**

We'd love for you to! At our Rancho Cucamonga STEM Center, families are invited to a daily showcase from 11:50–12:00 at the end of camp. At our Claremont El Roble location, student projects are shared at check-out tables throughout the week to ensure safe and organized viewing.

▶ **What is the cancellation policy if I need to cancel?**

We know things happen and want to make things work for you. To cover our time, all camp cancellations are subject to a non-refundable $30 processing fee. Outside of that, full refunds can be issued if the cancellation is 30+ days from the start of camp. Cancellations within 30 days can be refunded at 50% OR camp funds may be transferred in full to any future STEM Center USA program.

▶ **What materials will be provided?**

We provide all tech! The only thing you are responsible for bringing is a reusable water bottle and 2-3 snacks for snack breaks. Campers get hungry when they are learning! For some Rancho Cucamonga computer-based camps, bringing your own laptop is encouraged in order to continue working on projects post-camp. We do have laptops for all students to use otherwise!

▶ **Are your instructors background checked?**

Yes! All STEM Center USA instructors are fingerprinted, background checked at the Department of Justice and FBI level, and CPR trained to ensure a safe, supportive learning environment for all students.

Need help choosing camps?

Our Camp Director Ms. Jess is here to help!

Click to schedule a FREE personal consultation for personalized camp recommendations and support with the registration process.

- Consultations are 15 minutes long and available weekdays from 9:00am–5:00pm PST. Families can connect by phone using our Calendly scheduling link.

Schedule a Consulation