

## **Rising 5th-8th grade camps**

### **Sports Games Camp (Full Day): Offered Weeks 1,2,3,5,6,7,8**

Sign your campers up to experience their favorite P.E. games and sports for the week! Campers will spend their day in our gym and field playing games like mat ball, basketball, and more. Let your camper have some active fun while working on their athletic skills and sportsmanship.

### **Video Production (Full Day): Offered Weeks 1 and 2**

In this camp, your camper will explore stop-motion animation and make exciting movie trailers. Students will also produce a program to showcase their week's work. Campers will experience all aspects of producing a live show, including script writing, interviewing campers, editing, anchoring, and directing in our new studio. Campers will receive a copy of their broadcast.

### **Academy Rocket Lab (Full Day): Offered Weeks 3 and 4**

This camp is focused on all things that fly! It is sure to be a week filled with lots of learning, building, fun, and flight! Campers will construct mini-drones and navigate a drone obstacle course! Campers will also assemble and detail a model rocket for launch.

### **Trailblazers (Full Day): Offered Every Week**

This camp is for adventurers who love the outdoors and all the great fun it offers. There will be a variety of activities including fishing, team building, grilling hot dogs, making s'mores, and more! Campers learn proper archery techniques while aiming for the target and master essential survival skills. At the end of the week, campers will take a trip to Academy property and test their skills in the great outdoors.

### **Science Camp: Exploring Nature (Full Day): Offered Weeks 5 and 8**

Explore the world around you! In Exploring Nature, your camper will get to learn about the wildlife around us. They'll observe native wild life and their habits on campus and at the property, before going on a field trip to see different types of wildlife.

### **Academy Artists (Full Day): Offered Weeks 6 and 7**

Academy Artists is where your camper can channel their creativity. They'll get to work on their art skills while testing different mediums and participating in cool projects.

### **theCoderSchool Camps**

This summer, we're offering camps from theCoderSchool every week! Each of these camps are full day camps. Below is the weekly breakdown with the descriptions. Please note that certain camps might ask campers to bring in a VR headset.

#### **Week 1: Roblox Entrepreneur Part 1: Lua Coding and Game Scripting**

Roblox is one of the fastest-growing game creation platforms on the planet, with more than 100 million players per month and top developers making over \$1 million a year. Use Roblox's built-in editor with Lua—a powerful and fast programming language—to design challenging levels and code intuitive gameplay mechanics. Then, publish, share, and play games with your friends on any platform, from console to mobile. Lua enables you to create scripts either for your own game or to sell to other game designers!

#### **Week 2: Roblox Entrepreneur Part 2: Imaginative Game Design**

Roblox is one of the fastest-growing game creation platforms on the planet, with more than 100 million players per month and top developers making over \$1 million a year! In this imaginative game design course, you'll use Roblox's built-in editor to create 3D worlds, then publish, share, and play games with your friends on any platform, from console to mobile. You'll have a blast studying games that have been runaway hits and learning how to implement the same gameplay and monetization strategies in your own games.

#### **Week 3: Roblox Entrepreneur Part 3: Virtual Reality, Launch Your Own Obby Game in VR**

Experience Roblox with Virtual Reality (VR) by building your obstacle course with fire-spawning platforms and speed boosts that'll put your name on the top of the leaderboard, all in VR. Bring your Meta Quest 2, Meta Quest 3, or Meta Quest Pro VR Headset. Have fun coding and playing

with fellow campers. Kids will demonstrate their Roblox VR game to parents on the last day of camp.

#### **Week 4: Python Part 1: Python 101**

Begin your journey into computer programming with Python, one of the most in-demand coding languages in the world! You'll develop essential programming skills by working through logic games and learning foundational algorithms. Once you have your feet wet, you'll go all-in by designing your own arcade-style game. Deepen your understanding of computational thinking and grow more ambitious with every project! Beginning with Python will start you on a long and fulfilling path in coding and STEM.

#### **Week 5: Unity Part 1: Unity 2D Platform Game Design**

Go from game player to game creator with Unity, a powerful industry-standard game design engine. Games bring friends together, and Unity bridges the fields of art, code, and design all to one central location. You'll connect game elements from level platforms to customizing your own Battle Royale levels like the ones you'd find in Fortnite, Apex Legends, or Fall Guys. Using built-in visual code, you'll add rules and structure, showing players how to interact with your creation. With Unity, you'll learn to design incredible experiences for players, and join a community of millions of developers!

#### **Week 6: Unity Part 2: Unity Virtual Reality Game Design**

The best game makers are the ones who play them. Step directly into your game with virtual reality and the Meta Quest 2—an all-in-one wireless VR system. You'll pair it with Unity, an industry-standard game engine, to learn the basics of coding and create your own interactive experience. Bring awesome worlds to life that you can see, hear, and lose yourself in through the immersion of 360 audio and video. Your Meta Quest 2 and all of your models, designs, and levels will go home with you so you can continue building an immersive, imaginative virtual realm.

### **Week 7: Python Part 2: Python For Gamers**

Dive into our Tetris Python Pygame Camp, where young minds aged 11-14 transform coding concepts into a classic game. In just one week, campers learn Python basics and game development in Pygame, ending with their own Tetris game. This hands-on camp boosts problem-solving skills and creativity, emphasizing teamwork in a fun, supportive environment. Perfect for aspiring programmers and game enthusiasts, it's a blend of learning, creativity, and classic gaming fun!

### **Week 8: Python Part 3: Python for Artificial Intelligence**

In our technologically evolved culture, terms like artificial intelligence and machine learning are all the rage. Imagine if your computer could distinguish between cats and dogs, turn pictures of horses into zebras, and beat the world champion in chess. By utilizing applications like Python and TensorFlow, which allow computers to replicate brain function, you can make your ideas from yesterday a reality today. Build machine learning models using Python in this camp to perform imaginable tasks.

### **Week 9: Apple Vision Pro App Design**

VR Learning to Code Series: Apple Vision Pro offers an infinite Virtual reality spatial canvas to explore, experiment, and play, giving you the freedom to rethink your experience in 3D completely. You will create an app while staying connected to your surroundings or immerse yourself entirely in the world of your creation. Campers must bring their Apple Vision Pro and will demonstrate their App to parents on the last day of camp.