

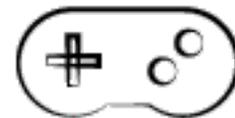
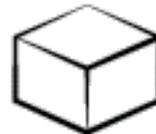


BLACKROCKET

Launch Your Creativity



2022 COURSE DESCRIPTIONS



TECH PROGRAMS THAT TAKE OFF!



Summer 2022 Courses

All classes are from 9am to 4pm. Students will begin the morning learning one category of creative technology and will switch to a new topic after lunch, completing two project-based courses in the digital arts by the end of the program.

Code Breakers and App Designers

Calling all future coders, programmers, & designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of web projects and design challenges each day and be on your way to becoming the next tech star! For the second half of the class take the first steps into the world of mobile app design and customize your own game app! Using a specialized app & game development tool, students will explore the world of web-based (HTML5) mobile apps. Student-created apps will be accessible on a private site and can be played on any mobile device or computer. Publishing to App Stores not included. Students do not need to own a smartphone or tablet to take this class.

Make Your First Video Game and LEGO® Movie!

If you love playing video games, this is the camp for you! Make your first video game in this one-of-a-kind class that shows you the keys to designing your first **2D** platformer game. Conceptualization, play experience, level design, graphics, sounds, and simple coding are just some of the concepts that we'll explore. Then go from game creation to making your LEGOs come to life! Bring in your favorite action figures or LEGOs and create a short film with your friends. Whether you want to recreate a scene from Star Wars or design a world of your own, this class brings your dreams to the screen. Students will need to bring in LEGOs and/or action figures from home, but all other equipment is provided. Student-created films and games will be available on a password protected website to share with friends and family.

Minecraft® Designers and Pokémon® Masters

If you love the game Minecraft and always wanted to design your own world, this class is for you! Learn how to create a custom map, design structures to share between worlds, build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends. Next, use your imagination and bring Pokemon to life through 3D modeling. Begin by creating your own digital Pokemon-style custom playing card game. Progress onto designing action figures, jewelry, and toys in professional-level modeling software. Learn how to prepare a model for 3D printing and create a design portfolio to showcase your work! No prior experience is necessary. To access projects at home, students must have Minecraft Java Edition for computers. Tablet, phone, and game console versions of Minecraft are not compatible.

Python Coding and Minecraft Engineers

Combine coding and Minecraft in this unique class. Begin the day by constructing your own carnival using Minecraft's Redstone, Command, and Structure blocks! Engineer and design a variety of mini-games, roller coasters, and attractions. In the afternoon explore the world's fastest-growing programming language favored by Google, NASA, Youtube, and the CIA. Learn how to code with Python to create engaging apps and games. Students must own a Java version of Minecraft to take this class. Tablet, phone, and game console versions of Minecraft are not compatible.

ROBLOX® Coders & Video Game Animators

Discover the Lua language through a visual block coding system while designing worlds in ROBLOX®, an online universe where you can create anything you dream of. This new class combines game design concepts, coding, and fun! In the afternoon explore the world of video game animation. Create and animate your own 2D character sprites, objects, and backgrounds. Finish the week with a fully animated 2D character and a Roblox game level you coded yourself. Student-created games will be available on a password protected Black Rocket website to share with friends and family.





YouTube Creators and Roblox Makers

Find your voice and leave your mark on the world! Whether you are six or sixteen, it's time to start a career as the next YouTube star. Explore the variety of content and personalities that exist on YouTube and how to find your own niche. Learn the Dos and Don'ts of the platform and how to practice good digital citizenship. Develop your on-camera presence, your own channel branding, and professional editing skills. Take home a plan for launching your own channel with the content created in class! After lunch, switch to the power of ROBLOX® Studio, the world creation tool used by real-world ROBLOX® developers! Learn how to build 3D models and create an adventure in your ROBLOX® world. Student-created projects will be available on a password protected Black Rocket website to share with friends and family.

