Students will be able to upload their work to a website to which the students and their parents will have access to monitor progress and make comments. Returning students can create more advanced projects that build on work of previous years.

**APP ATTACK!**
Fee: $185
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. In addition to learning the basics of mobile app design and game development, you will also see firsthand how the world of App publishing functions.

**JUN 24-28 M-F 9 a.m. - Noon**
**Ages 8-12**

**CODE BREAKERS**
Fee: $185
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! Whether you want to be the next Mark Zuckerberg or the high school student who just made $1 million dollars for programming in his bedroom, this course has the essentials you need to begin your journey. Projects will be available on a Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**JUN 24-28 M-F 1 - 4 p.m.**
**Ages 8-12**

**ADVANCED ROBOTICS**
Fee: $185
In this class learn to program a robot to overcome daily class challenges using visual and text-based programming. You will see firsthand how your program translates into action as you attempt to control your robot sensors and maneuver around obstacles. With your teammate, you will apply different coding concepts while using the scientific method to formulate, observe, experiment, test, and modify your robot. Students will work in teams for most of the program. No prior experience is required.

**JUL 8-12 M-F 9 a.m. - Noon**
**Ages 8-12**

**DRONE ADVENTURES**
Fee: $185
The Drones are here! Let the battles begin. In this hands on, interactive class you will learn how to fly and drive drone robots. Working in teams you will be able to code your drone to compete in missions that will prepare you for the ultimate team challenge at the end of the week.

**JUL 8-12 M-F 1 - 4 p.m.**
**Ages 8-12**

**MAKE YOUR FIRST VIDEO GAME!**
Fee: $185
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. No prior experience necessary, just a desire to have fun. Student created games will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers, Mac versions can be created after the program for $15.00 conversion fee. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**JUL 15-19 M-F 9 a.m. - Noon**
**Ages 8-12**

For more information and location information visit: ccwatraining.org/stemcamp | (804) 523-2292
CCWA has partnered with industry experts to present unique enrichment programs for youth. CCWA classes help kids learn while having fun!

**ROBLOX® CODERS-ENTREPRENEURS!**

**Fee:** $185

Discover how to code in the Lua language while playing and designing worlds in ROBLOX, an online universe where you can create anything you dream of. This class combines game design concepts, coding, and fun! Young entrepreneurs will also learn how to navigate Roblox’s fast growing marketplace to publish their games.

**JUL 15-19**  
M–F  1 - 4 p.m.  
**Ages 8 - 12**

**BATTLE ROYALE:**

**Make Your First Fortnite® Style Video Game**

**Fee:** $185

Fans of Fortnite we need you! Instead of playing the game, design your own. Using a professional 3D game development software, build levels and assets inspired by popular battle royale games like Fortnite. This course includes cartoonish action and battle sequences. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

**JUL 22-26**  
M–F  9 a.m. - Noon  
**Ages 8 - 12**

**eSPORTS APPRENTICE:**

**YouTube® Streamers & Gamers**

**Fee:** $185

Whether you want to be the next pro gamer, streamer, or gamecaster this course will teach you the basics to get started! No longer just a hobby, eSports is the fastest growing career for the next generation. Over 400 million people watched YouTube videos and Twitch streams of video game competitions this year alone! In this course, students will develop competitive game-play skills in Black Rocket’s new eSports App, learn how to produce commentary for live tournaments, use professional streaming software, and most importantly practice online safety. Students will gain full access to the eSports App and a video of their class tournament with commentary. Videos will not be broadcast publicly, but will be shared with all students in the class.

**JUL 22-26**  
M–F  1 - 4 p.m.  
**Ages 8 - 12**

**MINECRAFT® MODDERS:**

**Fee:** $185

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, the basics of creating 3D models using a new software to design your very own objects, how to build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends.

**JUL 29-AUG 2**  
M–F  9 a.m. - Noon  
**Ages 8 - 12**

**MINECRAFT® DESIGNERS**

**Fee:** $185

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, the basics of creating 3D models using a new software to design your very own objects, how to build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends. To access their project at home students must own a PC/MAC version of Minecraft. Tablet, phone, and game console versions of Minecraft are not compatible. Parent email address is required to use 3D modeling software. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**JUL 29-AUG 2**  
M–F  1 - 4 p.m.  
**Ages 8 - 12**

**BATTLE ROYALE:**

**Make Your First Fortnite® Style Video Game**

**Fee:** $185

Fans of Fortnite we need you! Instead of playing the game, design your own. Using a professional 3D game development software, build levels and assets inspired by popular battle royale games like Fortnite. This course includes cartoonish action and battle sequences. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

**JUL 22-26**  
M–F  9 a.m. - Noon  
**Ages 8 - 12**

**eSPORTS APPRENTICE:**

**YouTube® Streamers & Gamers**

**Fee:** $185

Whether you want to be the next pro gamer, streamer, or gamecaster this course will teach you the basics to get started! No longer just a hobby, eSports is the fastest growing career for the next generation. Over 400 million people watched YouTube videos and Twitch streams of video game competitions this year alone! In this course, students will develop competitive game-play skills in Black Rocket’s new eSports App, learn how to produce commentary for live tournaments, use professional streaming software, and most importantly practice online safety. Students will gain full access to the eSports App and a video of their class tournament with commentary. Videos will not be broadcast publicly, but will be shared with all students in the class.

**JUL 22-26**  
M–F  1 - 4 p.m.  
**Ages 8 - 12**

**MINECRAFT® DESIGNERS**

**Fee:** $185

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, the basics of creating 3D models using a new software to design your very own objects, how to build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends. To access their project at home students must own a PC/MAC version of Minecraft. Tablet, phone, and game console versions of Minecraft are not compatible. Parent email address is required to use 3D modeling software. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**JUL 29-AUG 2**  
M–F  1 - 4 p.m.  
**Ages 8 - 12**

For more information and location information visit: ccwatraining.org/stemcamp  |  (804) 523-2292