

BLACK ROCKET Weekly List of Kids College Classes 2021

To register for these classes go to: https://blackrocket.com/online/emc 5-day classes!

TECH PROGRAMS THAT TAKE OFF!



<u>JUNE 14 – JUNE 18:</u>

Battle Royale: Make Your First Fortnite® Style Video Game

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®. Students can participate in eSports League matches against other schools across the country with a chance to have their levels featured in the Black Rocket master build of the game! 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. *Compatible with MAC and Windows OS only and requires a 64-bit operating system.

Ages 8-11

Mon-Fri. 6/14-6/18/21 8:30am-11:30am Price: \$169





Make Your First Video Game

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 projects will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers. Returning students can create more advanced projects that build on previous years. *Compatible with Windows OS only. Ages 8-11

12:30pm-3:30pm Price: \$169

Minecraft® Redstone Engineers

Take the next step beyond simply "playing" Minecraft and become a true Redstone engineer. Expand your Redstone knowledge by constructing your own carnival with a variety of mini-games, roller coasters, and attractions powered by Redstone. Learn how to use Command and Structure blocks to incorporate them into your builds. Activate your skills and take your Minecraft structures to the next level! **Students must own a Java version of Minecraft to take this class.** Tablet, phone, and game console versions of Minecraft are not compatible. *Compatible with MAC and Windows OS only. Purchase Minecraft Java Edition

Ages 8-11 Mon-Fri. 6/14-6/18/21 8:30am-11:30am OR Ages 11-14

12:30pm-3:30pm Price: \$169

Python Programmers

Want to learn 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. Each lesson takes you step-by-step on a programming path that will let you challenge friends with fun content you create from start to finish! Returning students can create more advanced projects that build on previous years. *Compatible with MAC, Windows and Chrome OS.

Ages 11-14 Mon-Fri. 6/14-6/18/21 8:30am-11:30am



<u>JUNE 21 – JUNE 25:</u>

Code Breakers

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 a Silicon Valley CEO or the high school student who just made \$1 million dollars for programming in her 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. Returning students can create more advanced projects that build on previous years. *Compatible with MAC, Windows and Chrome OS.

Ages 8-11

Mon-Fri. 6/21-6/25/21 8:30am-11:30am

OR

Ages 11-14 12:30pm-3:30pm Price: \$169

Inventor's League - Prototyping for the Future!

Become an inventor of the future! Learn 'rapid prototyping' and problem solving as you conceptualize and design a product to solve a critical global issue. Each day begins with inspirational profiles of young inventors, such as the eleven-year-old who coded a robot to find victims of natural disasters. Next, research a problem to tackle in medicine, architecture, the environment, or a topic of your choosing. Once your vision is complete, learn how to draft 2D designs, create 3D models, and develop a website to pitch your ideas to the class. Student projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC and Windows OS only

Ages 8-11

Mon-Fri. 6/21-6/25/21 8:30am-11:30am

OR

Ages 11-14 12:30pm-3:30pm Price: \$169

ROBLOX® Coders & Entrepreneurs!

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! Young entrepreneurs will also learn how to navigate ROBLOX's fast-growing marketplace to publish their games. Student games will be available on a password protected website to share with friends and family. *Compatible with MAC and Windows OS only.

Ages 11-14 Mon-Fri. 6/21-6/25/21 8:30am-11:30am OR

Ages 8-11



YouTube Content Creators

Find your voice and leave your mark on the world! Whether you are six or sixty, 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! Student projects will be available on a password protected Black Rocket website to share with friends and family. *A webcam is required for this course and it is compatible with MAC and Windows OS only.

Ages 11-14 Mon-Fri. 6/21-6/25/21 8:30am-11:30am OR Ages 8-11

12:30pm-3:30pm Price: \$169

Young Authors

Children at this age have an unlimited supply of imagination and ideas. The goal is to show children just how much fun creative thinking can be if they let their imagination soar. Students will develop their own story from start to finish, ending with their own published soft cover book. Learn plot development, character creation, review literary techniques, and self-expression activities, including illustration, dialogue, and more. Typing support provided. At the end of the class all students will receive a soft cover book they created themselves! *Compatible with MAC, Windows and Chrome OS.

Ages 7-9 Mon-Fri. 6/21-6/25/21 8:30am-11:30am OR Ages 10-13 12:30pm-3:30pm

12:30pm-3:30pm Price: \$209

JUNE 28 – JULY 2:

App Attack!

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. 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. Returning students can create more advanced projects that build on previous years. *Compatible with Windows OS only.

Ages 8-11 Mon-Fri. 6/28-7/2/21 8:30am-11:30am OR



UPDATED! Minecraft® Modders

Customize your own Minecraft world and mod the classic game in this one of a kind class. Learn scripting and logic statements as you create your first mods. Students will create a wide variety of new elements, gameplay mechanics, and world generating mods to change the way you play Minecraft. Projects will be available on a password protected Black Rocket website to share with friends and family. **Students must own a Java version of Minecraft to take this class.** Tablet, phone, and game console versions of Minecraft are not compatible. Returning students can create more advanced projects that build on previous years. *Compatible with MAC and Windows OS only. Purchase Minecraft Java Edition

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Rocket Kart Racers: Design A Mario Kart® Style Game

On your marks, get set, create! Blast off in making your first 3D Mario Kart® and Crash Team Racing® style game! Design your own tracks and customize your karts and characters. Using a professional 3D game development software, students will combine their creations into their own kart racing game that they can play with friends and family at home. Students can participate in eSports League races against other schools across the country with a chance to have their tracks featured in the Black Rocket master build of the game! Student projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC and Windows OS only and requires a 64-bit operating system.

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Virtual Reality: The Future is Now!

Embark on an EPIC adventure in virtual reality! In this cutting-edge class, you will learn the foundations of VR design by creating your own *virtual* worlds, exploring simulated environments, and crafting memorable 3D experiences. A cardboard VR headset is optional for this course. Students may order one from blackrocket.com/store, take the class without a headset, or use any headset that works with a mobile phone. VR projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC, Windows and Chrome OS.

Ages 11-14 Mon-Fri. 6/28-7/2/21 8:30am-11:30am OR





NEW YouTube FX Masters

In the digital age, nothing is impossible! Become a master of illusion by learning the techniques used by Hollywood masters to create FX magic. Whether you want to enhance your YouTube videos or create a cool scene to amaze your friends; this class teaches the tools you need. Experiment with visual effects as you learn the dynamics of camera angles, editing, graphic layering, and sound effects. Then watch as your new creations take your channel content to the next level! Student projects are available on a password protected Black Rocket website to share with friends and family. *A webcam is required, compatible with MAC and Windows OS only, and requires a 64-bit operating system.

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JULY 6-JULY 9: 4-day classes this week only

3D Game Design with Unity

Are you ready to take your game design skills to another level? With Unity, an industry-grade design software, aspiring game designers will learn level editing, 3D modeling, impactful gameplay creation, as well as how to utilize scripts and variables. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Returning students can create more advanced projects that build on previous years. *Compatible with MAC and Windows OS only and requires a 64-bit operating system.

Ages 11-14 Tues.-Fri. 7/6-7/9/21 8:30am-11:30am OR Ages 8-11

12:30pm-3:30pm Price: \$135

NEW JavaScript Developer Jam

JavaScript Developer Jam Learn programming tools so powerful they seem like magic! Start off by learning an array of core programming concepts with JavaScript by experimenting in a series of digital challenges. Start with programming your first animated memes, then tackle more advanced skills such as interactive 3D experiences and game creation. Projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC, Windows and Chrome OS.

Ages 8-11 Tues.-Fri. 7/6-7/9/21 8:30am-11:30am OR Ages 11-14 12:30pm-3:30pm Price: \$135



Minecraft® Animators

Create the next popular animated Minecraft video on YouTube! Practice the same skills professionals at Pixar and Disney Animation Studios use. Discover the process of keyframing and tweening, how to use it to bring your own animated stories to life, and how to publish your content on YouTube. Student projects will be available on a password protected Black Rocket website to share with friends and family. Mac users can play their project at home, but will not be able to edit the project without a PC. Returning students can create more advanced projects that build on previous years. *Compatible with Windows OS only.

Ages 8-11 Tues.-Fri. 7/6-7/9/21 8:30am-11:30am OR Ages 11-14 12:30pm-3:30pm

Price: \$135

ROBLOX® Makers

Unlock 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. Bring characters to life with unique animations you design. Student-created projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC and Windows OS only.

Ages 8-11 Tues.-Fri. 7/6-7/9/21 8:30am-11:30am OR Ages 11-14 12:30pm-3:30pm Price: \$135



NEW eSports Apprentice - Streamers and Gamers

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 game-play skills and compete using Black Rocket's eSports games and apps, learn how to produce commentary for live tournaments, use professional streaming software, and most importantly practice online safety. Student recordings will be available on a password protected website to share with friends and family. Videos will not be broadcast publicly but will be shared with all students in the class. *A webcam is required, compatible with MAC and Windows OS only.

Ages 11-14 Tues.-Fri. 7/6-7/9/21 8:30am-11:30am OR Ages 8-11





JULY 12-JULY 16:

Inventor's League - Prototyping for the Future!

Become an inventor of the future! Learn 'rapid prototyping' and problem solving as you conceptualize and design a product to solve a critical global issue. Each day begins with inspirational proiles of young inventors, such as the eleven-year-old who coded a robot to find victims of natural disasters. Next, research a problem to tackle in medicine, architecture, the environment, or a topic of your choosing. Once your vision is complete, learn how to draft 2D designs, create 3D models, and develop a website to pitch your ideas to the class. Student projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC and Windows OS only.

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Minecraft® Designers

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. **Students must own a Java version of Minecraft to take this class**. Tablet, phone, and game console versions of Minecraft are not compatible. Parent email address is required to use 3D modeling software. Returning students can create more advanced projects that build on previous years .

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Python Programmers

Want to learn 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. Each lesson takes you step-by-step on a programming path that will let you challenge friends with fun content you create from start to finish! Returning students can create more advanced projects that build on previous years. *Compatible with MAC, Windows and Chrome OS.

Ages 11-14 Mon-Fri. 7/12-7/16/21 8:30am-11:30am OR Ages 8-11



Video Game Animation

Take your game design skills to the

next level by creating and animating your own character sprites, objects, and

backgrounds. Start with a name, develop the character's personality, signature moves, special powers, and a storyline. Finish with a fully animated character to be used in your very own game. Students do not need any prior experience in game design, animation, or sketching. Student-created games will be available on a password protected Black Rocket website to share with friends and family.

*Compatible with Windows OS only.

Ages 8-11 Mon-Fri. 7/12-7/16/21 8:30am-11:30am OR Ages 11-14 12:30pm-3:30pm

Price: \$169

YouTube Content Creators

Find your voice and leave your mark on the world! Whether you are six or sixty, 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! Student projects will be available on a password protected Black Rocket website to share with friends and family. *A webcam is required for this course and it is compatible with MAC and Windows OS only.

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JULY 19-JULY 23:

Battle Royale: Make Your First Fortnite® Style Video Game

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®. Students can participate in eSports League matches against other schools across the country with a chance to have their levels featured in the Black Rocket master build of the game! 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. *Compatible with MAC and Windows OS only and requires a 64-bit operating system.

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8:30am-11:30am

OR





Code Breakers

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Ages 11-14 Mon-Fri. 7/19-7/23/21 8:30am-11:30am OR Ages 8-11 12:30pm-3:30pm

Price: \$169

Pokémon® Masters: Designers & 3D Makers Unite!

Calling all boys and girls who want to be the designers of the future! In this class, if you can dream it, you can make it! Begin by creating your own digital Pokémon®-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 and 3D designs will be available on a password protected Black Rocket website to share with friends and family. Ages 8-11 and 11-14 *Compatible with MAC and Windows OS only.

Ages 8-11 Mon-Fri. 7/19-7/23/21 8:30am-11:30am OR Ages 11-14 12:30pm-3:30pm

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ROBLOX® Coders & Entrepreneurs!

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! Young entrepreneurs will also learn how to navigate ROBLOX's fast-growing marketplace to publish their games. Student games will be available on a password protected website to share with friends and family. *Compatible with MAC and Windows OS only.

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NEW YouTube FX Masters

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12:30pm-3:30pm Price: \$169

JULY 26-JULY 30:

App.IO: Make Your First Multiplayer App!

The hottest new Apps are IO apps! If your child likes to play Agar.io or Slither.io they will love this class! Become the creator of the next viral web app! In this class, explore the most popular .IO apps, design your own multiplayer experience and learn how to code your own app. 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 to take this class. Returning students can create more advanced projects that build on previous years. *Compatible with Windows OS only.

Ages 8-11 Mon-Fri. 7/26-7/30/21 8:30am-11:30am OR

Ages 11-14 12:30pm-3:30pm Price: \$169

Code Your Own Adventure! Interactive Storytelling

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and Twine scripting syntax. Student projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC, Windows and Chrome OS

Ages 8-11 Mon-Fri. 7/26-7/30/21

8:30am-11:30am

OR



Minecraft® Redstone Engineers

Take the next step beyond simply "playing" Minecraft and become a true Redstone engineer. Expand your Redstone knowledge by constructing your own carnival with a variety of mini-games, roller coasters, and attractions powered by Redstone. Learn how to use Command and Structure blocks to incorporate them into your builds. Activate your skills and take your Minecraft structures to the next level! **Students must own a Java version of Minecraft to take this class.** Tablet, phone, and game console versions of Minecraft are not compatible. *Compatible with MAC and Windows OS only. Purchase Minecraft Java Edition

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Virtual Reality: The Future is Now!

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AUGUST 2-AUGUST 6:

NEW JavaScript Developer Jam

JavaScript Developer Jam Learn programming tools so powerful they seem like magic! Start off by learning an array of core programming concepts with JavaScript by experimenting in a series of digital challenges. Start with programming your first animated memes, then tackle more advanced skills such as interactive 3D experiences and game creation. Projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC, Windows and Chrome OS.

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AUGUST 9-AUGUST 13:

App Attack!

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YouTube Content Creators

Find your voice and leave your mark on the world! Whether you are six or sixty, 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! Student projects will be available on a password protected Black Rocket website to share with friends and family. *A webcam is required for this course and it is compatible with MAC and Windows OS only.

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AUGUST 16-AUGUST 20:

3D Game Design with Unity

Are you ready to take your game design skills to another level? With Unity, an industry-grade design software, aspiring game designers will learn level editing, 3D modeling, impactful gameplay creation, as well as how to utilize scripts and variables. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Returning students can create more advanced projects that build on previous years. *Compatible with MAC and Windows OS only and requires a 64-bit operating system.

Ages 8-11 Mon-Fri. 8/16-8/20/21 8:30am-11:30am OR

Ages 11-14 12:30pm-3:30pm Price: \$169

Code Breakers

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 a Silicon Valley CEO or the high school student who just made \$1 million dollars for programming in her 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. Returning students can create more advanced projects that build on previous years. *Compatible with MAC, Windows and Chrome OS. Ages 11-14

Mon-Fri. 8/16-8/20/21 8:30am-11:30am OR Ages 8-11 12:30pm-3:30pm



Code Your Own Adventure! Interactive Storytelling

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and Twine scripting syntax. Student projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC, Windows and Chrome OS

Ages 11-14 Mon-Fri. 8/16-8/20/21 8:30am-11:30am OR Ages 8-11 12:30pm-3:30pm

Price: \$169

ROBLOX® Makers

Unlock 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. Bring characters to life with unique animations you design. Student-created projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC and Windows OS only.

Ages 8-11 Mon-Fri. 8/16-8/20/21 8:30am-11:30am OR Ages 11-14

12:30pm-3:30pm Price: \$169

Young Authors

Children at this age have an unlimited supply of imagination and ideas. The goal is to show children just how much fun creative thinking can be if they let their imagination soar. Students will develop their own story from start to finish, ending with their own published soft cover book. Learn plot development, character creation, review literary techniques, and self-expression activities, including illustration, dialogue, and more. Typing support provided. At the end of the class all students will receive a soft cover book they created themselves! *Compatible with MAC, Windows and Chrome OS.

Ages7-9 Mon-Fri. 8/16-8/20/21 8:30am-11:30am OR Ages 10-13



AUGUST 23-AUGUST 27:

Minecraft® Designers

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. **Students must own a Java version of Minecraft to take this class**. Tablet, phone, and game console versions of Minecraft are not compatible. Parent email address is required to use 3D modeling software. Returning students can create more advanced projects that build on previous years. *Compatible with MAC and Windows OS only. Purchase Minecraft Java Edition

Ages 8-11 Mon-Fri. 8/23-8/27/21 8:30am-11:30am OR Ages 11-14

12:30pm-3:30pm Price: \$169

Virtual Reality: The Future is Now!

Embark on an EPIC adventure in virtual reality! In this cutting-edge class, you will learn the foundations of VR design by creating your own *virtual* worlds, exploring simulated environments, and crafting memorable 3D experiences. A cardboard VR headset is optional for this course. Students may order one from blackrocket.com/store, take the class without a headset, or use any headset that works with a mobile phone. VR projects will be available on a password protected Black Rocket website to share with friends and family. *Compatible with MAC, Windows and Chrome OS.

Ages 8-11 Mon-Fri. 8/23-8/27/21 8:30am-11:30am OR Ages 11-14 12:30pm-3:30pm

Price: \$169



NEW YouTube FX Masters

In the digital age, nothing is impossible! Become a master of illusion by learning the techniques used by Hollywood masters to create FX magic. Whether you want to enhance your YouTube videos or create a cool scene to amaze your friends; this class teaches the tools you need. Experiment with visual effects as you learn the dynamics of camera angles, editing, graphic layering, and sound effects. Then watch as your new creations take your channel content to the next level! Student projects are available on a password protected Black Rocket website to share with friends and family. *A webcam is required, compatible with MAC and Windows OS only, and requires a 64-bit operating system.

Ages 11-14 Mon-Fri. 8/23-8/27/21 8:30am-11:30am OR Ages 8-11 12:30pm-3:30pm



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