ONLINE!
More classes! More ages! Lower cost!

- Over 200 online academies
- Pre-K–Rising 9th grade
- New lower price
Please note:

To register click on the academy title in the tables or the descriptions to go to our online registration system and enter the class ID in the search field.

Previously Registered Students:

If you registered for summer 2020 classes prior to April 30th, please complete the following form so we can assist you with this transition. For instructions on how to transfer previously registered students into online classes visit our new previously registered students instruction form.

Questions?

Don’t hesitate to email us at kidscollege@pvcc.edu with any questions.
KidsCollege ONLINE
June 1–Aug. 28 | Pre-K–9th Graders

Ages: Rising Pre-K–9th grade.
Location: ONLINE
Academy fee: $99–$159 per academy.
Scholarships: Partial scholarships based on financial need. Visit our Scholarship webpage for more information.

INSTRUCTOR BIOS
Visit our website to view this year’s instructors and their bios.

INSTRUCTIONAL PARTNERS

Black Rocket
Black Rocket has over a decade of experience designing and instructing STEAM (Science, Technology, Engineering, Arts-Mathematics) Academies. Every academy is powered by the student’s innate imagination and designed to bring their ideas to life in a fun, hands-on, learning environment. From concept to creation, students’ collaborative design process mirrors real life experiences.

Drobots Company
Drobots Company inspires students to utilize drone technology through collaborative project-based learning in a positive educational environment. The drone industry is experiencing exponential growth! Drobots fosters this new technological landscape with a unique curriculum, safety as the number-one priority, and well-trained, positively motivated instructors.

Community Homeschool Enrichment Center
The Community Homeschool Enrichment Center (CHEC) supports homeschool families by offering courses for children age 5 to 18. Our students are bright, curious, and enjoy following their passions – wherever they may lead. CHEC offers a wide variety of classes that are fun, educational, and social, reflecting the imagination of our instructors and students.
### WEEK 1: JUNE 1–5

#### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16740</td>
<td>8:30 a.m. *</td>
<td>Dr. Seuss is on the Loose</td>
<td>Drobot Company</td>
</tr>
<tr>
<td>1st–2nd</td>
<td>16741</td>
<td>8:30 a.m. *</td>
<td>Adventures in Home Engineering</td>
<td>Drobot Company</td>
</tr>
<tr>
<td>1st–2nd</td>
<td>15523</td>
<td>8:45 a.m.–noon</td>
<td>Dr. Seuss Stop Motion</td>
<td>Theresa Osani</td>
</tr>
<tr>
<td>1st–2nd</td>
<td>15514</td>
<td>8:45 a.m.–noon</td>
<td>Fairy Gardens</td>
<td>Joyce Carter</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16742</td>
<td>8:30 a.m. *</td>
<td>Master Magic Performance</td>
<td>Drobot Company</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>15611</td>
<td>8:45 a.m.–noon</td>
<td>Lotus Roots &amp; Bamboo Shoots</td>
<td>Ruei-Jen Fan</td>
</tr>
<tr>
<td>6th–9th</td>
<td>15444</td>
<td>8:45 a.m.–noon</td>
<td>Creative Build &amp; Design Challenge</td>
<td>Keith Brown</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.

#### afternoon academies 1–4:15 p.m.

| 1st–2nd | 15525 | 1–4:15 p.m. | Fairy Tales Reimagined | Theresa Osani |
| 3rd–6th | 15445 | 1–4:15 p.m. | Are there 101 Different Solar Cookers? | Keith Brown |
| 3rd–6th | 15446 | 1–4:15 p.m. | CSI Detectives          | Joyce Carter    |
| 6th–9th | 15612 | 1–4:15 p.m. | Decode Your Genes       | Ruei-Jen Fan    |

#### WEEK 1: JUNE 1–5

**16740 CLOSED**  
**Dr. Seuss is on the Loose**

Join Thing One and Thing Two and step into the wonderful world of Dr. Seuss! Let’s work and play together all week long to discover all of the amazing adventures that Dr. Seuss has in store. Can you find the Cat in the Hat as he sneaks between camper’s houses? Campers will work together to solve puzzles, create fun names for mythical creatures, and make their very own Truffula Tree!

**Pre/K** $149

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**16741 Adventures in Home Engineering CLOSED**

From simple Rube Goldberg Machines to complex autonomous systems, test your skills as an engineer in this exciting and creative camp! Explore the science of space and shape. Sketch, plan, and build model bridges, skyscrapers, railways, and much more. Test your projects to see how much strain they can take before they crumble to the ground.

**Rising 1st–2nd** $149
15523

**Dr. Seuss Stop Motion CLOSED**

Get ready to immerse yourself in the many worlds of Dr. Seuss. Whether it’s a whirl through Whoville or a swing among Truffula Trees, you will recreate Seuss-tacular worlds and characters using different artistic modes of expression, including stop motion. Each day, you will listen to a different story and choose one exciting medium to explore. You will create stop motion videos and also utilize traditional art materials such as clay to reimagine the whimsical worlds of Seuss.

*Rising 1st–2nd* $99

16742

**Master Magic Performance Camp CLOSED**

Abra Kadabra Alakazam, let’s join Magic Camp as fast as we can! In this awesome program we will be exploring the amazing world of close up magic! Learn to hide cards, make coins disappear and even read the minds of your audience. Prepare to come up with your magic name, put together a show, and perform for your friends and family!

Zippity Tah, Zippity Zoo... Now We'll See You Soon!

Program Specific Kit for $35 included in price for class. This kit will be mailed to you prior to the start date for the class.

*Rising 3rd–6th* $184

15611

**Lotus Roots & Bamboo Shoots CLOSED**

YUM! You will become familiar with common Chinese ingredients such as: rice, bok-choy, and tofu. You will also have a chance to work with unfamiliar ingredients such as bitter melon, lotus roots and bamboo shoots. Skills like stir frying, braising different traditional dishes, deep frying and steaming various vegetables using a wok and various Chinese cooking utensils will be taught. In the final class, as a small celebration we will even make our own bubble tea!

*Rising 3rd–6th* $129

15444

**Creative Build & Design Challenges CLOSED**

How creative is your team? Put your brains together to solve a fascinating problem by building, designing, or imagining the perfect solution! Some challenges may be building a launcher or creating a strong bridge or an unsinkable ship. While having fun, learn physics and basic engineering techniques to improve your designs.

*Rising 6th–9th* $99

15525

**Fairy Tales Reimaged CLOSED**

You grew up hearing fairy tales that begin with “Once upon a time...” and usually ending with a royal couple riding off into the sunset. But what if the princess wanted to marry someone else? Your imagination and creativity are needed as we reimagine fairy tales that are way better than a typical happily-ever-after in a world where anything is possible. After immersing ourselves in some classic fairy tales and watching parts of retold fairy tales, we will reinvent these plotlines with new twists and turn them into an art display or a fun skit. Think Shrek or The Paperbag Princess

*Rising 1st–2nd* $99
**Are there 101 Different Solar Cookers? CLOSED**

Maybe! Use your imagination and foil, Pringles cans, or boxes to design real functioning solar cookers. Depending on how clever your cooker is, you may be able to roast marshmallows, cook s’mores, or even roast hot dogs. You will learn about renewable energy, solar energy technology uses, and how much heat solar energy can produce.

**Rising 3rd-6th $99**

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**CSI Detectives**

Sharpen your investigative and detective skills and work with your team of detectives to solve a mysterious crime. Students will thoroughly analyze the crime scene and conduct labs to solve the mystery through photos, measurements, DNA, fingerprints, chromatography, and pH analysis. Through team work and labs, you will be a true investigator as you solve the mystery.

(For all returning detectives, this year’s crime will be different from last year’s.)

**Rising 3rd-6th $99**

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**Decode Your Genes**

Do you know your genes and DNA? In this class you will build a DNA model, extract DNA from your own cells and from plants. Then, you will amplify the DNAs that you have extracted and use computers to analyze DNA sequences and create phylogenetic trees to display genetic and evolutionary relationships. You will be immersed in an environment of hands-on activities and laboratory experiments designed to enhance your genetic knowledge, encourage critical thinking, and spark interest in the field of biotechnology.

**Rising 6th-9th $129**

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**Mini Minions**

Come and join our Mini Minions for a week as we celebrate the release of Minions: The Rise of Gru. Campers will practice their Minionese language skills and go on a virtual scavenger hunt to track down the elusive Gru. By the end of the week, all of our Mini Minions will make costumes and compete in Gru’s Academy of Mischief to see if they have what it takes to be a true Minion.

**Pre-K $149**

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**Artful Antics**

Prep your pallet, sharpen your pencils, and get ready to create! Flex the right side of your brain as we explore the visual arts in another awesome week at camp. Get ready to spend the week learning about and creating a multitude of artforms to prepare a showcase for all to see at the summer camp art gallery on Friday!

**Rising 1st-2nd $149**

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**Art Through Multi Modes CLOSED**

Digital Flipbooks! Word Art Self-Portraits! Watch your drawing come to life! Are you ready to create tons of digital masterpieces? If so, this is the class for you. Here, you’ll create art as you’ve never seen before.

**Rising 1st-2nd $99**

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**Jewelry Making**

How does a jeweler create such beautiful pieces? It’s time to find out! You will become the jewelry artisan. You will create necklaces, bracelets, earrings and rings using various mediums for your supplies.

**Rising 3rd-6th $99**
### WEEK 2: JUNE 8–12

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>morning academies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-K</td>
<td>16789</td>
<td>8:45 a.m.–noon</td>
<td>Mini Minions</td>
<td>Drobot Company</td>
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<tr>
<td>1st–2nd</td>
<td>16791</td>
<td>8:45 a.m.–noon</td>
<td>Artful Antics</td>
<td>Drobot Company</td>
</tr>
<tr>
<td>1st–2nd</td>
<td>15538</td>
<td>8:30 a.m.*</td>
<td>Art Through Multi Modes</td>
<td>Theresa Osani</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>15536</td>
<td>8:30 a.m.*</td>
<td>Jewelry Making</td>
<td>Joyce Carter</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>15447</td>
<td>8:30 a.m.*</td>
<td>STEM Transportation</td>
<td>Keith Brown</td>
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<tr>
<td>3rd–6th</td>
<td>15592</td>
<td>8:45 a.m.–noon</td>
<td>Studio Art Workshop</td>
<td>S. Taylor–Lascano</td>
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<tr>
<td>3rd–6th</td>
<td>16765</td>
<td>8:30 a.m.*</td>
<td>Master Magic Performance Camp</td>
<td>Drobot Company</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16524</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Battle Royale: Make Your First Fortnite ® Style Video Game</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16866</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>JavaScript Developer Jam</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th–9th</td>
<td>16770</td>
<td>8:30 a.m.*</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drobot Company</td>
</tr>
<tr>
<td>6th–9th</td>
<td>15545</td>
<td>8:45 a.m.–noon</td>
<td>Carnival Chaos</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>6th–9th</td>
<td>15541</td>
<td>8:45 a.m.–noon</td>
<td>Cooking Breakfast</td>
<td>Christina Rizzo</td>
</tr>
<tr>
<td>6th–9th</td>
<td>16760</td>
<td>9:30 a.m.–12:30</td>
<td>Minecraft Redstone Engineers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th–9th</td>
<td>16525</td>
<td>9:30 a.m.–12:30</td>
<td>ROBLOX ® Makers</td>
<td>Black Rocket</td>
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<tr>
<td></td>
<td></td>
<td><strong>afternoon academies</strong></td>
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<td></td>
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<tr>
<td>1st–2nd</td>
<td>15543</td>
<td>1–4:15 p.m.</td>
<td>Digital Animation: Watch Your Drawings Come Alive!</td>
<td>Theresa Osani</td>
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<tr>
<td>3rd–6th</td>
<td>15576</td>
<td>1–4:15 p.m.</td>
<td>3D Printed Action Figures</td>
<td>Haverkamp</td>
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<tr>
<td>3rd–6th</td>
<td>15448</td>
<td>1–4:15 p.m.</td>
<td>Science Meets Art</td>
<td>Keith Brown</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>15450</td>
<td>1–4:15 p.m.</td>
<td>STEM Toy Making</td>
<td>Joyce Carter</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16751</td>
<td>1:30–4:30 p.m.</td>
<td>Minecraft Redstone Engineers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16527</td>
<td>1:30–4:30 p.m.</td>
<td>ROBLOX ® Makers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th–9th</td>
<td>15544</td>
<td>1–4:15 p.m.</td>
<td>Baking 101</td>
<td>Christina Rizzo</td>
</tr>
<tr>
<td>6th–9th</td>
<td>15548</td>
<td>1–4:15 p.m.</td>
<td>The Science of Flying</td>
<td>Louis Torkornoo CHEC</td>
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<tr>
<td>6th–9th</td>
<td>16728</td>
<td>1:30–4:30 p.m.</td>
<td>Battle Royale: Make Your First Fortnite ® Style Video Game</td>
<td>Black Rocket</td>
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<tr>
<td>6th–9th</td>
<td>16867</td>
<td>1:30–4:30 p.m.</td>
<td>JavaScript Developer Jam</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.

www.pvcc.edu/kidscollege
15447

**STEM Transportation**

Can you create an unusual and unique mode of transportation that moves? You will be given different materials each day for your creations. You will learn about wind power and water power and create wind-powered boats, cars, planes and paddle boats.

**Rising 3rd-6th** $99

15592

**Studio Art Workshop**

Are you ready to paint, sculpt, smear, tear, blend, bend and glue? You will choose one exciting medium per day to explore, experiment and create artwork. The materials used throughout the week include chalk, watercolor, collage, sculpture and printmaking. The skills include elements of design, including engineering, contrast and composition. You will have an opportunity to choose, edit and prepare your favorite pieces to show at an exhibition at the end of the week. Be sure to wear clothing that can get stained!

**Rising 3rd-6th** $99

16765

**Master Magic Performance Camp**

Abra Kadabra Alakazam, let’s join Magic Camp as fast as we can! In this awesome program we will be exploring the amazing world of close up magic! Learn to hide cards, make coins disappear and even read the minds of your audience. Prepare to come up with your magic name, put together a show, and perform for your friends and family! Zippity Tah, Zippity Zoo... Now We'll See You Soon!

**Rising 3rd-6th** $184

16524

**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. You can participate in eSports League matches against other schools across the country with a chance to have your 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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system.

Compatible with MAC and Windows OS only.

**Rising 3rd-6th** $149

16866

**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. Students will work in pairs or teams for most of the program.

$10 license fee per student with this class.

Compatible with MAC, Windows and Chrome OS.

**Rising 3rd-6th** $159
Create & Host Your Own ESPN Sports Highlight Show

In sports, there was a time when coaching, management, and decision-making came down to instinct, experience and tradition. Over the last 20 years, statistical analysis has become the new normal for sports teams. This summer, you will have the opportunity to develop skills in sports analytics, become a truly knowledgeable sports fan, improve your skills in fantasy sports, and maybe launch a career in the world of sports one day! The hit movie Moneyball opened the eyes to the world of sports statistics and challenged everyone on how to simply think differently. Now middle and high school students are learning how to dissect video footage to analyze their favorite sports teams. Develop public speaking, writing, recording and editing skills. Now is your opportunity to learn more about how coaches and general managers of sports teams analyze their teams and players. During this camp, you will have the opportunity to pick your favorite sports team or player and put together a portfolio and analysis on how best they can improve.

Carnival Chaos

Everybody wins! Or do they? How do the rides stay balanced? The secret answer is in the math. Math is all around us, especially in the games and rides we love so much. But don’t worry! You’ll spend most of your time designing and building your own carnival games and rides. You will be able to determine the proper ramp angle, the probability of winning your game and the right trajectory for moving parts. Each day you will design and build prototypes of carnival rides, such as Ferris wheels and roller coasters and games like skee ball. The end will be a KidsCollege carnival for you to enjoy!

Cooking Breakfast

They say breakfast is the most important meal of the day. Join us to find out why we agree! Parents and kids will learn how to make eggs at least 6 different ways along with all the breakfast meats and potatoes that go oh-so well with them. We will also explore some pancakes and French toast recipes that are not at all boring and make some yummy cinnamon rolls. This academy will cover basic food safety principles, knife usage and safety in the kitchen, as well as basic food preparation.

16770

15545

Carnival Chaos

Rising 6th-9th $149

15541

Cooking Breakfast

Rising 6th-9th $99
16760

**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. Students will work in pairs or teams for most of the program.

*Compatible with MAC and Windows OS only.

Purchase Minecraft Java Edition
Rising 6th–9th $149

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16525

**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. Students will work in pairs or teams for most of the program.

*Compatible with MAC and Windows OS only.

Rising 6th–9th $149

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15543

**Digital Animation: Watch Your Drawings Come Alive!**

Art and animation join forces in this epic class. Are you a young animator? Well, you’ve found the right class because here you will transform your drawings into live animation with powerful tools that are easy and fun to use. Whether you choose the drawing editor to create artwork or frame-by-frame animations, you’ll be amazed how, along with props, you can create sophisticated and complex scenes.

Pre–K $149

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15576

**3D Printed Action Figures**

Pow! You will make original 3D printed action figures with working joints so their arms and legs move! Learn how to solve mechanical engineering challenges while being expressive and creative. You will also learn concepting and interactive design to arrive at unique character visions.

**Computer Requirements: Students must use a Mac or PC. This program cannot run on a tablet, iPad or phone.

Rising 3rd–6th $149
15448  
**Science Meets Art**

Can you imagine doing a science and art project at the same time? These unusual and fun projects might include oil and water painting and chromatography art. You will learn about the density of water and oil and then create unusual art projects based on what you learn. Your artistic abilities and scientific knowledge will be used to create rainbow paper, glue and salt painting, water art and chromatography art.

*Rising 3rd-6th*  
$99

15450  
**STEM Toy Making**

Everyone loves toys but how do you make them? You will learn how to create marble mazes, stick rockets, kaleidoscopes, vortex cannons, balancing robots and bottle rockets. You will need to work collaboratively with your team to design and engineer the toys that you create.

*Rising 3rd-6th*  
$99

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**Following us on Social Media**

See all the latest KidsCollege photos and news at  
www.facebook.com PVCCYouthPrograms/  
twitter.com/pvccwfs  
www.instagram.com/pvccwfs/

Check online for the latest information on NEW summer KidsCollege Academies and program developments at: [www.pvcc.edu/kidscollege](http://www.pvcc.edu/kidscollege).
15544

**Baking 101**

Have you ever dreamed of being a pastry chef or maybe you just want to learn how to bake? This basic baking class will help you achieve those dreams. You will learn the chemistry behind what makes baking a true science. Join us in making cakes from scratch and decorating them, learning how to make yeast rolls, cookies, pies, and quick breads such as biscuits and muffins. This academy will cover basic food safety principles, knife usage, safety in the kitchen and basic food preparation.

**Rising 6th-9th**  $99

15548

**The Science of Flying**

Ever wanted to build a model RC airplane from its parts and watch it take flight? Perhaps you’re a pro, or a beginner, at building and designing paper airplanes? Come join me and your friends as we assemble individual parts, complete the electrical and mechanical engineering components required to make your RC airplane soar through the air. You will discover how the size of the wings affect the lift, how jet propulsion works and the science behind propellers and the overall flight. Perhaps you’ve wondered how such a heavy airplane can float in the air. This is your chance to discover the answers.

**Rising 6th-9th**  $149

16751

**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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.

**Purchase Minecraft Java Edition**

**Rising 3rd-6th**  $149

16527

**ROBLOX ® Makers**

GraphicUnlock 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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.

**Rising 3rd-6th**  $149
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. You can participate in eSports League matches against other schools across the country with a chance to have your 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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system.

Compatible with MAC and Windows OS only.

Rising 6th-9th $149

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. Students will work in pairs or teams for most of the program.

$10 license fee per student with this class.

Compatible with MAC, Windows and Chrome OS.

Rising 6th-9th $159
## WEEK 3: JUNE 15–19

### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16744</td>
<td>8:30 a.m.*</td>
<td>Super Safari (Pre-K)</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>16745</td>
<td>8:30 a.m.*</td>
<td>Game Show Mania</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16771</td>
<td>8:30 a.m.*</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15550</td>
<td>8:45 a.m.–noon</td>
<td>Engineering Feats: Bridges &amp; Tunnels</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15673</td>
<td>8:45 a.m.–noon</td>
<td>Studio Art Workshop</td>
<td>Shari Taylor–Lascano</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16597</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Minecraft Modders</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16608</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Video Game Animation</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15673</td>
<td>8:45 a.m.–noon p.m.</td>
<td>Fiscal Fit Camp: Dollars and Cents</td>
<td>Y. Webb–Jordan</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16635</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>ROBLOX® Coders &amp; Entrepreneurs!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16531</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>YouTube Content Creators</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16868</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Code Breakers</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

### afternoon academies 1–4:15 p.m.

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3rd-6th</td>
<td>15662</td>
<td>1–4:15 p.m.</td>
<td>Delicious Science</td>
<td>Caitlin Poole</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16636</td>
<td>1:30–4:30 p.m.</td>
<td>ROBLOX® Coders &amp; Entrepreneurs!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16532</td>
<td>1:30–4:30 p.m.</td>
<td>YouTube Content Creators</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16889</td>
<td>1:30–4:30 p.m.</td>
<td>Code Breakers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15553</td>
<td>1–4:15 p.m.</td>
<td>Time to Play: Dungeons &amp; Dragons</td>
<td>Teela James CHEC</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16599</td>
<td>1:30–4:30 p.m.</td>
<td>Minecraft Modders</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16613</td>
<td>1:30–4:30 p.m.</td>
<td>Video Game Animation</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.

### 15673 Studio Art Workshop

Are you ready to paint, sculpt, smear, tear, blend, bend and glue? You will choose one exciting medium per day to explore, experiment and create artwork. The materials used throughout the week include chalk, watercolor, collage, sculpture and printmaking. The skills include elements of design, including engineering, contrast and composition. You will have an opportunity to choose, edit and prepare your favorite pieces to show at an exhibition at the end of the week. Be sure to wear clothing that can get stained!

**Rising 3rd-6th** $99
WEEK 3: JUNE 15–19
morning academies

16744
Super Safari
Day campers are on a mission to find the most exciting and rare animals in the jungle. Campers will crawl through the tall grass and peer at some of nature’s most magnificent creatures. We will be making our own binoculars, field guides, and safari hats before heading out on a one-of-a-kind camp adventure.
Pre-K $149

16745
Game Show Mania
Day campers are on a mission to find the most exciting and rare animals in the jungle. Campers will crawl through the tall grass and peer at some of nature’s most magnificent creatures. We will be making our own binoculars, field guides, and safari hats before heading out on a one-of-a-kind camp adventure.
Rising 1st-2nd $149

16771
Create & Host Your Own ESPN Sports Highlight Show
In sports, there was a time when coaching, management, and decision-making came down to instinct, experience and tradition. Over the last 20 years, statistical analysis has become the new normal for sports teams. This summer, you will have the opportunity to develop skills in sports analytics, become a truly knowledgeable sports fan, improve your skills in fantasy sports, and maybe launch a career in the world of sports one day! The hit movie Moneyball opened the eyes to the world of sports statistics and challenged everyone on how to simply think differently. Now middle and high school students are learning how to dissect video footage to analyze their favorite sports teams. Develop public speaking, writing, recording and editing skills. Now is your opportunity to learn more about how coaches and general managers of sports teams analyze their teams and players. During this camp, you will have the opportunity to pick your favorite sports team or player and put together a portfolio and analysis on how best they can improve.
Rising 3rd-6th $149

15550
Engineering Feats: Bridges & Tunnels
Have you ever wondered how they build bridges? Our world is filled with bridges, tunnels and other engineering feats. How do engineers create these bridges so they don’t collapse? How can we drive through a tunnel underwater? We will explore these structures - new and old, concrete and natural - and the steps involved to create them through hands-on projects.
Rising 3rd-6th $149
16597

**Minecraft Modders**

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mods! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student 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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only. 
**Purchase Minecraft Java Edition**

Rising 3rd-6th $149

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16608

**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. Games are only compatible on PC computers; Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.

Rising 3rd-6th $149

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15593

**Fiscal Fit Camp: Dollars & Cents**

Money, Money, Money. We all want it, but do you know what to do with it once you earn it? Are you ready to expand your piggy bank and learn how to make smart choices with your money? This class is designed to help you understand the options you have for careers and future earning potential. You will get a clear understanding of money management, spending, saving and budgeting.

Rising 6th-9th $99

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16635

**ROBLOX® Coders & Entrepreneurs!**

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 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-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.

$10 license fee per student with this class

Compatible with MAC and Windows OS only.

Rising 6th-9th $159
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. Students work in pairs or teams for most of the program.

A webcam is required for this course.

Compatible with MAC and Windows OS only

Rising 6th-9th $149

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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC, Windows and Chrome OS.

Rising 6th-9th $149

ROBLOX® Coders & Entrepreneurs!

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 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-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.

$10 license fee per student with this class

Compatible with MAC and Windows OS only.

Rising 3rd-6th 159

Delicious Science

Science AND food? You will use food to learn more about structures of the earth, human bodies and molecules. Learning science never tasted so good.

Rising 3rd-6th $99

www.pvcc.edu/kidscollege 17
**16532**

**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. Students work in pairs or teams for most of the program.

A webcam is required for this course.

Compatible with MAC and Windows OS only

**Rising 3rd-6th**  $149

**16869**

**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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC, Windows and Chrome OS.

**Rising 3rd-6th**  $149

**15553**

**Time to Play: Dungeons & Dragons**

Join your friends for this engaging foray into a fantasy world. Your first epic journey will be to pick and customize your character. Will you be a high elf, a human, a lightfoot halfling, or a hill dwarf? A cleric, a fighter, a rogue, or a wizard? Will your character be jolly, or sarcastic, or quick to throw a punch? After that you’ll set off on a daring adventure full of deadly perils, powerful magic, ferocious monsters and, if we’re lucky, some bad puns. Pretty polyhedral dice provided.

**Rising 6th-9th**  $149
16599  

**Minecraft Modders**  

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mods! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student 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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.  

Compatible with MAC and Windows OS only.  

**Purchase Minecraft Java Edition**  

**Rising 6th-9th**  

$149

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16613  

**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. Games are only compatible on PC computers; Mac versions can be created after the program for $15 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.  

Compatible with Windows OS only.  

**Rising 6th-9th**  

$149
## Week 4: June 22-26

### Morning Academies

<table>
<thead>
<tr>
<th>Age</th>
<th>Class #</th>
<th>Time</th>
<th>Academy Name</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16759</td>
<td>8:30 a.m.</td>
<td>Kings, Queens &amp; Castles</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>16761</td>
<td>8:30 a.m.</td>
<td>Incredible Inventors</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16764</td>
<td>8:30 a.m.</td>
<td>Fairytales &amp; Superheroes</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15554</td>
<td>8:45 a.m.-noon</td>
<td>Somewhere Below the Sea</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16733</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Make Your First Video Game!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16625</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Python Programmers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16870</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Rocket Kart Racers: Design A Mario Kart Style Game</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15579</td>
<td>8:45 a.m.-noon</td>
<td>Maker Lab: Drawing, Sculpting, &amp; 3D Printing</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16561</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>eSports Apprentice: Streamers &amp; Gamers</td>
<td>Black Rocket</td>
</tr>
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</table>

### Afternoon Academies 1–4:15 p.m.

<table>
<thead>
<tr>
<th>Age</th>
<th>Class #</th>
<th>Time</th>
<th>Academy Name</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st-2nd</td>
<td>15652</td>
<td>1–4:15 p.m.</td>
<td>Studio Art Workshop</td>
<td>Shari Taylor-Lascano</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15582</td>
<td>1–4:15 p.m.</td>
<td>Intro to the Unity Game: Engine &amp; Programming</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15651</td>
<td>1–4:15 p.m.</td>
<td>Lemonade Stand: Becoming an Entrepreneur</td>
<td>Y. Webb-Jordan</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15663</td>
<td>1–4:15 p.m.</td>
<td>Ninja Warrior: BRAINS &amp; BODIES</td>
<td>Jared Rohrer</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16562</td>
<td>1:30–4:30 p.m.</td>
<td>eSports Apprentice: Streamers &amp; Gamers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15594</td>
<td>1–4:15 p.m.</td>
<td>Career Exploration</td>
<td>Deborah Ashby</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16737</td>
<td>1–4:15 p.m.</td>
<td>Make Your First Video Game!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16626</td>
<td>1–4:15 p.m.</td>
<td>Python Programmers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16871</td>
<td>1:30–4:30 p.m.</td>
<td>Rocket Kart Racers: Design A Mario Kart Style Game</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.
15554

**Somewhere Below the Sea**

The ocean covers most of our planet, and yet there is so much that we haven’t explored. Did you know that an island is just the top of an undersea mountain? The world’s tallest mountain is under the ocean! We all know about whales and sharks, but have you heard of the four-eye butterfly? Come on an underwater adventure as we discover the many mysteries that lie beneath the waves.

**Rising 3rd-6th**

$149

15663

**Kings, Queens & Castles**

Hear ye, hear ye! Calling all Lords and Ladies of the land. Join us in the Camp Kingdom as we take off on an adventure back in time. Campers will enjoy puppet shows, Renaissance dance parties, and the Noble Knight training course. Make your own Renaissance costume, complete with a family crest! Beware of Wise Wizard, as he’s been known to cast spells and engage in jousting tournaments of mythical proportions!

**Pre-K**

$149

16761

**Incredible Inventors**

“To invent, you need a good imagination and a pile of junk.” ? Thomas A. Edison Campers, put on your thinking caps and get ready to innovate! Scheme with fellow campers to create out-of-the-box inventions to solve everyday problems. Using simple everyday items, campers will collaborate to make their favorite invention ideas come to life!

**Rising 1st-2nd**

$149

16733

**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, Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.

**Rising 3rd-6th**

$149
**Week 4: June 22-26**

16625

**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! Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

$10 license fee per student with this class

Compatible with MAC, Windows and Chrome OS.

**Rising 3rd-6th** $159

15579

**Maker Lab: Drawing, Sculpting, & 3D Printing**

Bring your imagination, creativity and independent thinking! This maker lab combines art and technology for the best of all possible creative design and production solutions. Learn the magic of concepting by drawing your ideas, then sculpting them and finally making them come to life with 3D printing. Maker labs are best suited for students that have the ability, self-control, and desire to work in a more independent environment.

Computer Requirements: Students must use a Mac or PC. This program cannot run on a tablet, iPad or phone.

**Rising 6th-9th** $99

16870

**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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system.

Compatible with MAC and Windows OS only.

**Rising 3rd-6th** $149

16561

**eSports Apprentice: Streamers & 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. Students will work in pairs or teams for most of the program. Videos will not be broadcast publicly but will be shared with all students in the class.

Ages: 8-11 and 11-14

A webcam is required for this course Software is compatible with MAC and Windows OS only.

**Rising 6th-9th** $149
15651

**Lemonade Stand: Becoming an Entrepreneur**

Are you interested in being a CEO? Do you want to earn money and learn how to run your own business? You will learn the difference between a profit and a loss, how to market and advertise your business and how to launch a grand opening during this fun, interactive class.

**Rising 1st–2nd**  $99

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15663

**Ninja Warrior: BRAINS & BODIES**

Someone has to design those amazing Ninja Warrior courses and in this class that someone is YOU. You will use your amazing BRAINS to model, design and build obstacles that will be part of a student-designed Ninja Warrior course that you will use your BODIES to navigate at weeks end. You will split your time between designing and building the obstacles and learning through movement which body parts are working to conquer the obstacle you designed.

**Rising 1st–2nd**  $99
eSports Apprentice: Streamers & 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. Students will work in pairs or teams for most of the program. Videos will not be broadcast publicly but will be shared with all students in the class. A webcam is required for this course Software is compatible with MAC and Windows OS only.

Rising 1st-2nd $149

Career Exploration

YOU'RE HIRED! Words everyone wants to hear. In Career Exploration you will explore career interests through fun and interactive career inventories and assessments. You will develop a resume, practice interviewing skills and discover careers and that interest you. What do you want to be when you grow up? A teacher, a scientist, a doctor, a farmer? In Career Exploration, you’ll explore career possibilities in Virginia Department of Education’s 16 different career clusters. We’ll take the skills you’ve gained in school, at home and in your community to construct a one-page resume. We’ll design business cards and flyers for employment possibilities this summer. Career Exploration will help you prepare for your future now and give you resources to continue searching future options.

Rising 6th-9th $99

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, Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.

Rising 3rd-9th $149
**Online Registration**

Learn about newly added academies and program updates.

Please check online for the latest information on NEW summer KidsCollege Academies and program developments at: www.pvcc.edu/kidscollege.
### WEEK 5: JUNE 29–JULY 3

#### Morning Academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16804</td>
<td>8:30 a.m.*</td>
<td>America's Star-Spangled Celebration</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>16805</td>
<td>8:30 a.m.*</td>
<td>Movie Making: Commercials &amp; Trailers</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16574</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>3D Game Design with Unity</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16872</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>App Attack!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16772</td>
<td>8:30 a.m.</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drobots</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16584</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>JavaScript Developer Jam</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16533</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>YouTube Content Creators</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

#### Afternoon Academies

| 1st-2nd | 15664   | 1–4:15 p.m.       | Ninja Warrior: BRAINS & BODIES                   | Jared Rohrer             |
| 3rd-6th | 16256   | 1–4:15 p.m.       | Coding Craze                                     | Jasmine Azimi            |
| 3rd-6th | 15657   | 1–4:15 p.m.       | Cupcake Wars                                     | Christina Rizzo          |
| 3rd-6th | 16585   | 1:30–4:30 p.m.    | JavaScript Developer Jam                         | Black Rocket             |
| 3rd-6th | 16534   | 1:30–4:30 p.m.    | YouTube Content Creators                         | Black Rocket             |
| 6th-9th | 15653   | 1–4:15 p.m.       | Fiscal Fit Camp                                  | Y. Webb-Jordan           |
| 6th-9th | 15654   | 1–4:15 p.m.       | Studio Art Workshop                              | Shari Taylor-Lascano     |
| 6th-9th | 16575   | 1:30–4:30 p.m.    | 3D Game Design with Unity                        | Black Rocket             |
| 6th-9th | 16873   | 1:30–4:30 p.m.    | App Attack!                                      | Black Rocket             |

* Class times vary. Please click class link to view times.
WEEK 5: JUNE 29–JULY 3
morning academies

16804
America’s Star-Spangled Celebration

Oh say can you see -- all the patriotic-packed games and crafts in store for campers as we celebrate our nation’s birthday. Shhh! We are throwing a surprise party! Campers create patriotic hats, construct firecracker shakers, decorate birthday cards, host a virtual parade, and participate in U.S.A.-themed fun and games. This is a jam-packed week full of celebrations!

Pre-K $149

16805
Movie Making: Commercials & Trailers

We are ready to make our own commercials and trailers! Put on your beret and sunglasses for this hyper-creative movie making program. All campers will design, direct, film, edit, and present their projects. Young movie makers (and stars) will learn the ins and outs of movie making and editing software. From pre-production storyboarding to camera angle technique, all campers will have the opportunity to challenge themselves creatively and socially as they work in teams to produce a final project that will be aired for the whole camp!

Rising 1st-2nd $149

16574
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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

*Rising 3rd-6th
$149

*This requires a 64-bit operating system.

*Compatible with MAC and Windows OS only.
**16872**

**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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with Windows OS only.

**Rising 3rd-6th** $149

**16772**

**Create & Host Your Own ESPN Sports Highlight Show**

In sports, there was a time when coaching, management, and decision-making came down to instinct, experience and tradition. Over the last 20 years, statistical analysis has become the new normal for sports teams. This summer, you will have the opportunity to develop skills in sports analytics, become a truly knowledgeable sports fan, improve your skills in fantasy sports, and maybe launch a career in the world of sports one day! The hit movie Moneyball opened the eyes to the world of sports statistics and challenged everyone on how to simply think differently. Now middle and high school students are learning how to dissect video footage to analyze their favorite sports teams. Develop public speaking, writing, recording and editing skills. Now is your opportunity to learn more about how coaches and general managers of sports teams analyze their teams and players. During this camp, you will have the opportunity to pick your favorite sports team or player and put together a portfolio and analysis on how best they can improve.

**Rising 6th-9th** $149

**16584**

**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. Students will work in pairs or teams for most of the program. $10 license fee per student with this class

Compatible with MAC, Windows and Chrome OS

**Rising 6th-9th** $159

**16533**

**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. Students work in pairs or teams for most of the program.

A webcam is required for this course.

Compatible with MAC and Windows OS only.

**Rising 6th-9th** $149
15664  
Ninja Warrior: BRAINS & BODIES

Someone has to design those amazing Ninja Warrior courses and in this class that someone is YOU. You will use your amazing BRAINS to model, design and build obstacles that will be part of a student-designed Ninja Warrior course that you will use your BODIES to navigate at weeks end. You will split your time between designing and building the obstacles and learning through movement which body parts are working to conquer the obstacle you designed.

Rising 1st-2nd  $99

16256  
Coding Craze

Did you know that there are no computers faster or more equipped to do work than your brain? In this coding class we will explore the excitement of coding, which is developing our understanding of computer programming, through experiences with MineCraft, Ozobots, Makey Makey and materials created by Hour of code. Put your brain to work and see its power come to life!

Rising 3rd-6th  $99

15657  
Cupcake Wars

Cupcakes have become very fashionable lately. Parents and kids will learn a new cupcake and icing recipe each day. From basic vanilla to yummy strawberry lemonade and chocolate peanut butter, we will cover it all. There will be plenty of cupcakes to share with friends and family. Who doesn’t love a cupcake?! This academy will cover basic food safety principles and safety in the kitchen, as well as basic food preparation. This is a parent-child class.

Rising 3rd-6th  $99

16585  
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. Students will work in pairs or teams for most of the program.

$10 license fee per student with this class
Compatible with MAC, Windows and Chrome OS

Rising 3rd-6th  $159

16534  
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. Students work in pairs or teams for most of the program.

A webcam is required for this course.
Compatible with MAC and Windows OS only.

Rising 3rd-6th  $149
Money, Money, Money. We all want it, but do you know what to do with it once you earn it? Are you ready to expand your piggy bank and learn how to make smart choices with your money? This class is designed to help you understand the options you have for careers and future earning potential. You will get a clear understanding of money management, spending, saving and budgeting.

**Rising 6th-9th** $99

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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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with Windows OS only.

**Rising 6th-9th** $149

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Climb aboard the Millennium Falcon and set your sights for a Galaxy Far Far Away! See if you have what it takes to be the next camp Jedi as campers use the force to compete with fellow Padawans from every corner of the galaxy. Our Day Camp Padawan program will blow campers’ minds as they build lightsabers and go through The Virtual Saber Training Academy with the Great Counselor Yoda.

**Pre-K** $149

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*This requires a 64-bit operating system.

*Compatible with MAC and Windows OS only.

**Rising 6th-9th** $149
### WEEK 6: JULY 6-10

#### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16773</td>
<td>8:30 a.m.*</td>
<td>Star Wars Padawan Academy</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>16777</td>
<td>8:30 a.m.*</td>
<td>Seriously... Do Try This At Home!</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16778</td>
<td>8:30 a.m.*</td>
<td>Hansel &amp; Gretel Rock!</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15563</td>
<td>8:45 a.m.-noon</td>
<td>I Went into a Cell &amp; What Did I See?</td>
<td>Ruei-Jen Fan CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15560</td>
<td>8:45 a.m.-noon</td>
<td>The Musical &amp; Poetic Experience</td>
<td>Louis Torkornoo CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15595</td>
<td>8:45 a.m.-noon</td>
<td>Lemonade Stand: Becoming an Entrepreneur</td>
<td>Y. Webb-Jordan</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16631</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Inventor's League: Prototyping for the Future</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15597</td>
<td>8:45 a.m.-noon</td>
<td>Dance, Move, Create!</td>
<td>Anne Megibow</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15555</td>
<td>8:45 a.m.-noon</td>
<td>Engineering Disasters</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16544</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Code Breakers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16547</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>ROBLOX ® Makers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16875</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Minecraft Redstone Engineers</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

#### afternoon academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st-2nd</td>
<td>16258</td>
<td>1–4:15 p.m.</td>
<td>Coding Craze</td>
<td>Jasmine Azimi</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>15658</td>
<td>1–4:15 p.m.</td>
<td>Snack Attack</td>
<td>Christina Rizzo</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15591</td>
<td>1–4:15 p.m.</td>
<td>Maker Lab: Drawing, Sculpting, &amp; 3D Printing</td>
<td>John Haverkamp</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15557</td>
<td>1–4:15 p.m.</td>
<td>How Does Your Garden Grow?</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15665</td>
<td>1–4:15 p.m.</td>
<td>Ninja Warrior: BRAINS &amp; BODIES</td>
<td>Jared Rohrer</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15661</td>
<td>1–4:15 p.m.</td>
<td>Shocking Connections</td>
<td>Caitlin Poole</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16546</td>
<td>1:30–4:30 p.m.</td>
<td>Code Breakers</td>
<td>Black Rocket</td>
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<tr>
<td>3rd-6th</td>
<td>16550</td>
<td>1:30–4:30 p.m.</td>
<td>ROBLOX ® Makers</td>
<td>Black Rocket</td>
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<tr>
<td>3rd-6th</td>
<td>16877</td>
<td>1:30–4:30 p.m.</td>
<td>Minecraft Redstone Engineers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15656</td>
<td>1–4:15 p.m.</td>
<td>Career Exploration</td>
<td>Deborah Ashby</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15650</td>
<td>1–4:15 p.m.</td>
<td>Photography: Eyes on Your World</td>
<td>Gwendolyn Sherwood</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15565</td>
<td>1–4:15 p.m.</td>
<td>Decode Your Genes</td>
<td>Ruei-Jenn Fan CHEC</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15596</td>
<td>1–4:15 p.m.</td>
<td>Rags to Riches: Project Summer</td>
<td>Y. Webb-Jordan</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16632</td>
<td>1:30–4:30 p.m.</td>
<td>Inventor's League: Prototyping for the Future</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.
**16777**

**Seriously... Do Try This At Home!**

Are you ready for a DYNAMITE camp? Hold onto your socks, ’cause we’re going to test the OUTER LIMITS of science! What might that look like? Stretch your imagination! What if you could visualize sound, watch molecules move, and create chemical reactions? How cool would that be? You will know WHAT... and HOW... and WHY these DIY experiments work -- at Seriously... Do Try This at Home! Common Household Items for supplies: Compatible Computers or Devices: iPad (iOS Device) – Tablet (Android Device) – Tablet (Microsoft Device) – Mac Computer (with OS Operating System) – PC Computer (with Windows Operating System) – Chromebook (with Android Operating System) All devices require either an internal or external microphone and webcam. **Rising 1st–2nd** $149

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**15563**

**I Went into a Cell & What Did I See?**

Have you ever wondered about the microscopic world—things that are too small for you to see? Come and join us this fun and hands-on workshop! You will have a chance to use a microscope to observe cells from organisms that we can’t even see with our own eyes. You will also explore the cells building blocks. In the end, you will make an edible cell model.

**Rising 3rd–6th** $149

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**16778**

**Hansel & Gretel Rock!**

This whimsical musical theater program will have your camper on the edge of their seat as we take a wild and windy tour through the wicked world of Hansel and Gretel. Whether a novice or practiced thespian, everyone will have an absolute blast as we create the music, sing the songs, and act out this fabulously fun tale of fantasy and fear! Follow the breadcrumbs to join this awesome camp! Common Household Items for supplies: Compatible Computers or Devices: iPad (iOS Device) – Tablet (Android Device) – Tablet (Microsoft Device) – Mac Computer (with OS Operating System) – PC Computer (with Windows Operating System) – Chromebook (with Android Operating System) All devices require either an internal or external microphone and webcam. **Rising 3rd–6th** $149

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**15560**

**The Musical & Poetic Experience**

What do poetry and music have in common? Have you ever wanted to compose your own music or write your own lyrics? Join me as we explore the exciting challenges of songwriting and poetry. We will discuss the poetic elements of metaphors and similes as well as imagery, alliteration and rhyme schemes. How can the rhythm of poetry transform it into a song lyric by merely adding refrains to the stanzas? Aspiring conductors and singers are welcome to join us as we embrace such elements as tempo, pitch, dynamics and tone. Must bring your own instrument.

**Rising 3rd–6th** $149
15595
Lemonade Stand: Becoming an Entrepreneur

Are you interested in being a CEO? Do you want to earn money and learn how to run your own business? You will learn the difference between a profit and a loss, how to market and advertise your business and how to launch a grand opening during this fun, interactive class.

Rising 3rd–6th $99

16631
Inventor’s League: Prototyping for 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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.

Rising 3rd–6th $149

15597
Dance, Move, Create!

Explore the many ways to create an individual style of moving and dancing! Where do we find our inspiration? Everywhere! Tree branches dance in the wind, birds float through the air, dogs run across fields just for the pure enjoyment of moving. We’ll begin each class with a warmup based on modern dance technique and improvisation. Working in small groups, let’s see where our imagination takes us. Then, our week together ends with a special performance of YOUR individual way of dancing and moving!

Rising 6th–9th $99

15555
Engineering Disasters

Have you heard of the Leaning Tower of Pisa? Do you know why it’s called the LEANING Tower of Pisa? You’ll find out why as we examine some amazing engineering feats, such as the Eiffel Tower, as well as some epic failures – the Leaning Tower of Pisa. Sometimes the engineers just didn’t know any better. After all, the tower in Pisa was built almost 1000 years ago! But sometimes they did know better and were just in a rush to keep up with the competitors, such as the Firestone 500 disaster. What caused each of these to fail? You’ll investigate all of this and more as you try to make your own designs better!

Rising 6th–9th $149

Week 6: July 6–10
**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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**Compatible with MAC, Windows and Chrome OS.**

**Rising 6th-9th**  $149

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**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. Students will work in pairs or teams for most of the program.

**Compatible with MAC and Windows OS only.**

**Purchase Minecraft Java Edition**

**Rising 6th-9th**  $149

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**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. Students will work in pairs or teams for most of the program.

**Compatible with MAC and Windows OS only.**

**Rising 6th-9th**  $149

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**Coding Craze**

Did you know that there are no computers faster or more equipped to do work than your brain? In this coding class we will explore the excitement of coding, which is developing our understanding of computer programming, through experiences with MineCraft, Ozobots, Makey Makey and materials created by Hour of code. Put your brain to work and see its power come to life!

**Rising 1st-2nd**  $99
15658
Snack Attack

“Snack Attack”- when one experiences a sudden impulse to binge on the nearest foods. Parents and Kids will be able to fulfill their snack attacks while making recipes such as rainbow fruit skewers, granola bars, turkey sushi rolls, mini pizzas, quesadillas, and many more delicious recipes. Hands will be kept busy creating healthful snacks using fresh ingredients while also practicing other age-appropriate skills with help from a parent for cutting, chopping, and cooking. This academy will cover basic food safety principles and safety in the kitchen, as well as some basic food preparation.

This is a parent-child class.
Rising 1st–2nd $99

15557
How Does Your Garden Grow?

The experience of watching a tiny seed transform into a towering sunflower or a tasty tomato is quite magical. In this camp, you’ll explore the science behind that magic as you dig into the basics of gardening. You’ll learn by growing a variety of plants and conducting experiments on how environmental factors, such as soil types, affect them. On the last day of camp, you will have your own flower and vegetable gardens to take home!

Rising 3rd–4th $149

15591
Maker Lab: Drawing, Sculpting, & 3D Printing

Bring your imagination, creativity and independent thinking! This maker lab combines art and technology for the best of all possible creative design and production solutions. Learn the magic of concepting by drawing your ideas, then sculpting them and finally making them come to life with 3D printing. Maker labs are best suited for students that have the ability, self-control, and desire to work in a more independent environment.

Computer Requirements: Students must use a Mac or PC. This program cannot run on a tablet, iPad or phone.
Rising 3rd–4th $99

15665
Ninja Warrior: BRAINS & BODIES

Someone has to design those amazing Ninja Warrior courses and in this class that someone is YOU. You will use your amazing BRAINS to model, design and build obstacles that will be part of a student-designed Ninja Warrior course that you will use your BODIES to navigate at week’s end. You will split your time between designing and building the obstacles and learning through movement which body parts are working to conquer the obstacle you designed.

Rising 3rd–4th $99
Shocking Connections

Have you ever wondered what makes a light switch turn on and off? Learn about how circuits work with hands-on lessons about conductivity. You will build circuits out of many different types of materials and learn what makes a circuit successful.

**Rising 3rd-4th** $99

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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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**Compatible with MAC, Windows and Chrome OS.**

**Rising 3rd-4th** $149

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ROBLOX® Makers

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**Compatible with MAC and Windows OS only.**

**Rising 3rd-4th** $149

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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. Students will work in pairs or teams for most of the program.

**Compatible with MAC and Windows OS only.**

**Purchase Minecraft Java Edition.**

**Rising 3rd-6th** $149

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Career Exploration

YOU'RE HIRED! Words everyone wants to hear. In Career Exploration you will explore career interests through fun and interactive career inventories and assessments. You will develop a resume, practice interviewing skills and discover careers that interest you. What do you want to be when you grow up? A teacher, a scientist, a doctor, a farmer? In Career Exploration, you’ll explore career possibilities in Virginia Department of Education’s 16 different career clusters. We'll take the skills you’ve gained in school, at home and in your community to construct a one-page resume. We’ll design business cards and flyers for employment possibilities this summer. Career Exploration will help you prepare for your future now and give you resources to continue searching future options.

**Rising 6th-9th** $99

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Week 6: July 6-10
15650
**Photography: Eyes on Your World**

Students will learn the basic fundamentals of photography including camera functions and basic composition skills. Students will practice the principles learned and develop a photo book or similar project which will highlight their skills.

**Rising 6th-9th**

$99

15565
**Decode Your Genes**

Do you know your genes and DNA? In this class you will build a DNA model, extract DNA from your own cells, and from plants. Then, you will amplify the DNAs that you have extracted, use computers to analyze DNA sequences, and create phylogenetic trees to display genetic and evolutionary relationships. You will be immersed in an environment of hands-on activities and laboratory experiments designed to enhance your genetic knowledge, encourage critical thinking, and spark interest in the field of biotechnology.

**Rising 6th-9th**

$149

15596
**Rags to Riches: Project Summer**

Are you creative? Do you like fashion? Are you interested in being a designer, a stylist, or a fashion blogger? If your answer is yes, then this is the course for you. In this fun and interactive class, you will learn about the importance of color, trends, fads, and classic styles from the past, and how they are cycling back around, and you will even learn to transform old pieces of clothes that you already have into updated fashion pieces.

**Rising 6th-9th**

$99

16632
**Inventor’s League: Prototyping for the Future**

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. Students will work in pairs or teams for most of the program.

**Compatible with MAC and Windows OS only.**

**Rising 6th-9th**

$149
### WEEK 7: JULY 13-17

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>morning academies</strong></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Pre-K</strong></td>
<td></td>
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<tr>
<td></td>
<td>16780</td>
<td>8:30 a.m.*</td>
<td>Pirate Adventure</td>
<td>Drobots Company</td>
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<tr>
<td>1st-2nd</td>
<td>16781</td>
<td>8:30 a.m.*</td>
<td>Stop Motion Animation</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16782</td>
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<td>Magical Performance Camp</td>
<td>Drobots Company</td>
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<tr>
<td>3rd-6th</td>
<td>15605</td>
<td>8:45 a.m.-noon</td>
<td>Dance: Movement is Everywhere!</td>
<td>Anne Megibow</td>
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<tr>
<td>3rd-6th</td>
<td>15602</td>
<td>8:45 a.m.-noon</td>
<td>Rags to Riches: Project Summer</td>
<td>Y. Webb-Jordan</td>
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<tr>
<td>3rd-6th</td>
<td>15566</td>
<td>8:45 a.m.-noon</td>
<td>Zip, Zoom, Float &amp; Fly</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16577</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>3D Game Design with Unity</td>
<td>Black Rocket</td>
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<td>3rd-6th</td>
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<td>Python Programmers</td>
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<td>6th-9th</td>
<td>16783</td>
<td>8:30 a.m.</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drobots Company</td>
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<td>6th-9th</td>
<td>15585</td>
<td>8:45 a.m.-noon</td>
<td>Intro to the Unity Game: Engine &amp; Programming</td>
<td>John Haverkamp</td>
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<tr>
<td>6th-9th</td>
<td>15598</td>
<td>8:45 a.m.-noon</td>
<td>Photography: Eyes on Your World</td>
<td>Gwendolyn Sherwood</td>
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<tr>
<td>6th-9th</td>
<td>16664</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Minecraft Animators</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>16724</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Pokémon® Masters: Designers &amp; 3D Makers</td>
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<td>3rd-6th</td>
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<td>1–4:15 p.m.</td>
<td>Code the World</td>
<td>Caitlin Poole</td>
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<td>3rd-6th</td>
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<td>Fun with Photography</td>
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<td>3rd-6th</td>
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<td>1–4:15 p.m.</td>
<td>Maker Lab: Create Your Own World</td>
<td>John Haverkamp</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16725</td>
<td>1:30–4:30 p.m.</td>
<td>Pokémon® Masters: Designers and 3D Makers Unite!</td>
<td>Black Rocket</td>
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<tr>
<td>3rd-6th</td>
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<td>1:30–4:30 p.m.</td>
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<td>Black Rocket</td>
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<td>6th-9th</td>
<td>15568</td>
<td>1–4:15 p.m.</td>
<td>Forensics Fun</td>
<td>Megan Bailey CHEC</td>
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<tr>
<td>6th-9th</td>
<td>16578</td>
<td>1–4:15 p.m.</td>
<td>3D Game Design with Unity</td>
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<tr>
<td>6th-9th</td>
<td>16865</td>
<td>1:30–4:30 p.m.</td>
<td>Python Programmers</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.
WEEK 7: JULY 13–17
morning academies

16780
Pirate Adventure*

*Ahoy Mateys! Day campers jump aboard Captain Counselor’s pirate ship and live the life of a pirate, creating pirate hats, patches, hooks, and even their own pet parrot. Campers will compete in buccaneer challenges to see who has what it takes to join the Captain’s crew. Come join us on a camp pirate adventure! All devices require either an internal or external microphone and webcam.

Pre-K $149

16781
Stop Motion Animation

*A whirlwind of costumes, imagination, storyboarding, and fun, campers will plan, shoot, and edit their own stop motion animation movie. Bringing to life everyday objects from around the house, campers will slide into their directors chairs as they create their very own film. Camper animators will go through the entire process of stop motion based on their interests. At the end of the week, the animators will present their Stop Motion Animation Films to the entire camp. All campers will receive a digital copy of their work for their creative portfolios. Let’s start, stop motion!

Prerequisite: iPad or camera that can upload images to computer.

Common Household Items – Smartphone or Tablet (iPad; Android; Kindle Fire HD, etc) with a camera that can download The Stop Motion Studio from any app store.

All devices require either an internal or external microphone and webcam

Rising 1st-2nd $149

16782
Magical Performance Camp*

*Abra Kadabra Alakazam, let’s join Magic Camp as fast as we can! In this awesome program we will be exploring the amazing world of close up magic! Learn to hide cards, make coins disappear and even read the minds of your audience. Prepare to come up with your magic name, put together a show, and perform for your friends and family! Zippity Tah, Zippity Zoo...Now We’ll See You Soon! Program Specific Kit $35 is included in the tuition for this class. This kit will be mailed to you, prior to the start date of this class. All devices require either an internal or external microphone and webcam.

Rising 3rd-6th $184

* Common household items for supplies

Compatible computers or devices:
- iPad (iOS Device)
- Tablet (Android Device)
- Tablet (Microsoft Device)
- Mac Computer (with OS Operating System) - PC Computer (with Windows Operating System)
- Chromebook (with Android Operating System)
15605
**Dance: Movement is Everywhere!**

How many different ways can you move? Like a snake? Like your feet are stuck in Jell-o? Like your best friend? Come spend the week exploring ALL the surprising ways of moving. Bring your imagination, energy and ideas! Let’s see what kinds of movement and dances we can create and discover.

*Rising 3rd-6th* $99

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15602
**Rags to Riches: Project Summer**

Are you creative? Do you like fashion? Are you interested in being a designer, a stylist, or a fashion blogger? If your answer is yes, then this is the course for you. In this fun and interactive class, you will learn about the importance of color, trends, fads, and classic styles from the past, and how they are cycling back around, and you will even learn to transform old pieces of clothes that you already have into updated fashion pieces.

*Rising 3rd-6th* $99

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15566
**Zip, Zoom, Float & Fly**

You’re zipping down the speedway, wind whipping your hair up in a frenzy as you hug the turns. Or maybe you’re an astronaut, bracing yourself for the bumpy ride as your reentry capsule falls from space into the Earth’s atmosphere. Wherever your dreams may lead you, it’s up to engineers to design and build the vehicles to get you there. How do they do it and keep you safe? With crash test dummies, of course! You will design and build a variety of vehicles and test them with your very own crash test dummies.

*Rising 3rd-6th* $149

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16577
**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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years. This requires a 64-bit operating system. Compatible with MAC and Windows OS only.

*Rising 3rd-6th* $149

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16879
**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? Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years?

$10 license fee per student with this class

Compatible with MAC, Windows and Chrome OS.

*Rising 3rd-9th* $159

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Week 7: July 13-17
16783
**Create & Host Your Own ESPN Sports Highlight Show**

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 worlds, exploring simulated environments, and crafting memorable 3D experiences. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family.

There is an additional $11 lab fee per student for the VR Headset.

Compatible with MAC, Windows and Chrome OS.

**Rising 6th-9th**

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15585
**Intro to the Unity Game: Engine & Programming**

Learn to code and build customized games! Many games you already play are built with the Unity game engine. Unity is a platform that helps professionals build games easily without having to start from scratch. You will build a customized 2D type platform game. The simple scripts used to make things happen in the game serve as a fun introduction to the C# and/or JavaScript programming languages. That’s real coding! You will also explore physics, art and sound design as you build your own unique levels.

**Rising 6th-9th**

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15598
**Photography: Eyes on Your World**

This class is for students who have taken the basic photography course, either this year or in a previous year, and are interested in going to the next level learning their cameras. This is for students with DSLR cameras only—no point and shoot cameras or phones. Students will learn more about aperture and shutter speed and practice these skills.

**Rising 6th-9th**

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16664
**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. Students will work in pairs or teams for most of the program. 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.

**Rising 6th-9th**

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16724

 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 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 and 3D designs 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. This is a limited release only available for BR Instructor Creator Corps Schedules. Compatible with MAC and Windows OS only.  

Rising 6th-9th $149

15659

**Code the World**

You’ve heard the craze for learning to code, but what is coding? Learn the basics of coding, offline. If you are new to coding, this class will teach you the basics of how to code a system through games that don’t require any screen time.  

Rising 6th-9th $99

16725

 Pokémon® Masters: Designers and 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 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 and 3D designs 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. This is a limited release only available for BR Instructor Creator Corps Schedules. Compatible with MAC and Windows OS only.  

Rising 6th-9th $149

15607

**Fun with Photography**

Students will learn the basic fundamentals of photography including camera functions and basic composition skills. Students will practice the principles learned and develop a photo book or similar project which will highlight their skills.  

Rising 6th-9th $99

15586

**Maker Lab: Create Your Own World**

Ever wanted to make your own world in real life like you do in Minecraft or other sandbox style games? In this class a wide variety of techniques from drawing/painting, cardboard construction, Cricut paper-cutting, 3D printing and mold-making will be used to generate a miniature world and its inhabitants. Maker labs are best suited for students that have the ability, self-control, and desire to work in a more independent environment.  

Rising 6th-9th $99

Week 7: July 13-17
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. Students will work in pairs or teams for most of the program. 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.
Rising 6th-9th $149

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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.
This requires a 64-bit operating system.
Compatible with MAC and Windows OS only.
Rising 6th-9th $149

Forensics Fun
Do you have what it takes to be a CSI – Crime Scene Investigator? In this academy, you will learn techniques used in real crime scenes. You will make your own CSI kit, learn how to “walk the scene,” lift various prints, and analyze mystery substances and other evidence. You will even investigate and solve the mystery of a crime scene.
Rising 6th-9th $149

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! Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.
$10 license fee per student with this class
Compatible with MAC, Windows and Chrome OS.
Rising 6th-9th $159
## WEEK 8: JULY 20–24

### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
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<th>INSTRUCTOR</th>
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<tr>
<td>Pre-K</td>
<td>16784</td>
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<td>Silly Scientists</td>
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<td>1st-2nd</td>
<td>16785</td>
<td>8:30 a.m.*</td>
<td>Adventures in Home Engineering</td>
<td>Drobots Company</td>
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<td>3rd-6th</td>
<td>16786</td>
<td>8:30 a.m.*</td>
<td>Homemade Music Madness!</td>
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<td>3rd-6th</td>
<td>16633</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Inventor’s League: Prototyping for the Future</td>
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<td>Rocket Kart Racers: Design a Mario Kart Style Game</td>
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<td>6th-9th</td>
<td>15570</td>
<td>8:45 a.m.-noon</td>
<td>Gadgets &amp; Gizmos</td>
<td>Megan Bailey CHEC</td>
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<td>6th-9th</td>
<td>16860</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Virtual Reality: The Future is Now</td>
<td>Black Rocket</td>
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### afternoon academies

| 3rd-6th | 15577   | 1–4:15 p.m. | The Toy Shop                                      | Megan Bailey CHEC |
| 3rd-6th | 16861   | 1:30–4:30 p.m. | Virtual Reality: The Future is Now | Black Rocket |
| 6th-9th | 16634   | 1:30–4:30 p.m. | Inventor’s League - Prototyping for the Future | Black Rocket |
| 6th-9th | 16564   | 1:30–4:30 p.m. | Minecraft Designers                               | Black Rocket |
| 6th-9th | 16595   | 1:30–4:30 p.m. | Rocket Kart Racers: Design a Mario Kart Style Game | Black Rocket |

*Class times vary. Please click class link to view times.

### 16785

**Adventures in Home Engineering***

*Campers, welcome to the camp Laboratory! Strap on your goggles, toss on your lab coat, mess up your hair, and prepare to enter the Drobots Mad, Mad Virtual Lab. With new experiments every day, this fun-filled week is sure to strike the curiosity of every little scientist.

All devices require either an internal or external microphone and webcam.

<table>
<thead>
<tr>
<th>Pre-K</th>
<th>$149</th>
</tr>
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</table>

**Rising 1st–2nd**

From simple Rube Goldberg Machines to complex autonomous systems, test your skills as an engineer in this exciting and creative camp! Explore the science of space and shape. Sketch, plan, and build model bridges, skyscrapers, railways, and much more. Test your projects to see how much strain they can take before they crumble to the ground.

All devices require either an internal or external microphone and webcam.

**Rising 1st–2nd**

| $149 |
Homemade Music Madness!*  

*Using household items we can make a homemade Rock Band! Craft a tambourine, guitar, drums, and shakers! Whether you’re stuck inside on a rainy day or just love to work on musical projects, this program will change the way you look at instruments forever! Expand your mind as we explore what makes different sounds and of course…WHY?! Design, Showcase, Write, and Perform with our true virtuosos! Common Household Items for supplies

All devices require either an internal or external microphone and webcam.  
Rising 3rd-6th $149

* Common household items for supplies
Compatible computers or devices:
- iPad (iOS Device)
- Tablet (Android Device)
- Tablet (Microsoft Device)
- Mac Computer (with OS Operating System) - PC Computer (with Windows Operating System)
- Chromebook (with Android Operating System)

Inventor’s League: Prototyping for the Future

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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.
Rising 3rd-6th $149

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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only.
Rising 3rd-6th $149
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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system. Compatible with MAC and Windows OS only.

Rising 3rd-6th $149

Gadgets & Gizmos

What did kids play with before electricity? Sure, there were wind-up toys, but those must have gotten boring after a while. In this camp, you’ll create gizmos that spin, wobble, and whiz. You’ll make gadgets that fling, swing, glide, and collide – all without the use of motors or batteries! If you like nerf wars, you’ll love our dart launcher battle. Want to go for a spin? Maybe you’ll win the race with our CD race car! You’ll explore how these contraptions work, and how you can make them better.

Rising 3rd-6th $149
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. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family.

There is an additional $11 lab fee per student for the VR Headset.

Compatible with MAC, Windows and Chrome OS.

Rising 6th-9th $160

The Toy Shop

You read that right – this camp is all about TOYS! But not the toys you buy in a toy store. We might live in the electronic age, but these toys require no screen, no computer chip, no batteries... no electricity at all. These toys you’ll make all on your own. Can you make a toy grasshopper jump two feet in the air without a spring? You might have fashioned arrows out of sticks, but have you made a full archery set? You’ll make a toy box full of toys, and even create new designs and prototypes!

Rising 3rd-6th $149
**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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only.

**Rising 6th-9th** $149

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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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system.

Compatible with MAC and Windows OS only.

**Rising 6th-9th** $149

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**Wild Wild West**

Yee-haw! And welcome to the Wild West! Put on your cowboy hat and look toward the horizon for some awesome Western-themed activities and crafts. Expect a visit from the silliest cowboy around, Cowboy Counselor. Campers will have fun creating their own cowboy costumes and testing out their ranch hand skills in friendly competitions throughout the week. Saddle up for a week in the West you won’t forget!

All devices require either an internal or external microphone and webcam.

**Pre K** $149

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**Artful Antics**

“Prep your pallet, sharpen your pencils, and get ready to create! Flex the right side of your brain as we explore the visual arts in another awesome week at camp. Get ready to spend the week learning about and creating a multitude of artforms to prepare a showcase for all to see at the summer camp art gallery on Friday!”

All devices require either an internal or external microphone and webcam.

**Rising 1st-2nd** $149

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*Common household items for supplies* Compatible computers or devices:

- iPad (iOS Device)
- Tablet (Android Device)
- Tablet (Microsoft Device)
- Mac Computer (with OS Operating System)
- PC Computer (with Windows Operating System)
- Chromebook (with Android Operating System)
## WEEK 9: JULY 27–31

<table>
<thead>
<tr>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
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</thead>
<tbody>
<tr>
<td><strong>morning academies</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-K</td>
<td>16787</td>
<td>8:30 a.m.* Wild Wild West</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>16788</td>
<td>8:30 a.m.* Artful Antics</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16790</td>
<td>8:30 a.m.* Riff &amp; Rhyme Musical Theater!</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16619</td>
<td>9:30 a.m.-12:30 p.m. Code Your Own Adventure! Interactive Storytelling</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16605</td>
<td>9:30 a.m.-12:30 p.m. Minecraft Modders</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16639</td>
<td>9:30 a.m.-12:30 p.m. ROBLOX® Coders &amp; Entrepreneurs!</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>15578</td>
<td>8:45 a.m.-noon Spies R Us</td>
<td>Megan Bailey CHEC</td>
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<tr>
<td>6th-9th</td>
<td>16656</td>
<td>9:30 a.m.-12:30 p.m. Minecraft Animators</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>16862</td>
<td>9:30 a.m.-12:30 p.m. Make Your First 3D Video Game!</td>
<td>Black Rocket</td>
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<tr>
<td><strong>afternoon academies</strong></td>
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<tr>
<td>3rd-6th</td>
<td>15580</td>
<td>1–4:15 p.m. The Science of Flying</td>
<td>Louis Torkornoo CHEC</td>
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<tr>
<td>3rd-6th</td>
<td>16863</td>
<td>1:30-4:30 p.m. Make Your First 3D Video Game!</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>16621</td>
<td>1:30-4:30 p.m. Code Your Own Adventure! Interactive Storytelling</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>16640</td>
<td>1:30-4:30 p.m. ROBLOX® Coders &amp; Entrepreneurs!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16606</td>
<td>1:30-4:30 p.m. Minecraft Modders</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.

### Riff & Rhyme Musical Theater!*

Join us for an incredible week that centers around campers from all different skill levels coming together to create an awesome musical experience. Take a deep dive into musical theatre story plots, song types, and acting. All the amazing performances we put together will be recorded and shared with the camp families in order to showcase just how fun and collaborative music theater can be!

All devices require either an internal or external microphone and webcam.

**Rising 3rd-4th**  

$149
16619  
**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 JavaScript. Student projects 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.

Compatible with MAC and Windows OS only.  
**Rising 3rd-4th** $149

16639  
**ROBLOX® Coders & Entrepreneurs!**

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 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-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.

$10 license fee per student with this class.  
Compatible with MAC and Windows OS only.  
**Rising 3rd-4th** $159

16605  
**Minecraft Modders**

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mods! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student 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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only.  
**Rising 3rd-4th** $149

15578  
**Spies R Us**

There is danger lurking around every corner—no one can see it but you! Messages written in code. Secret files smuggled out of the country. This is your life now. Can you complete the training to become a super spy? Grab your spy glasses and find your way through the laser maze. Time is running out!

**Rising 6th-9th** $149
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. Students will work in pairs or teams for most of the program. 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.

Rising 6th-9th $149

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, Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.

Rising 6th-9th $149

The Science of Flying

What do paper airplanes and Radio Controlled (RC) planes have in common? Come find out, as we assemble RC airplanes from their individual parts as well as build paper airplanes from scratch. You’ll learn about the experience of flight as you explore lift, impact of wing length and plane size on flight time and decorate your own airplanes.

Rising 3rd-4th $149

Code Your Own Adventure!

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 JavaScript. Student projects 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.

Compatible with MAC and Windows OS only.

Rising 6th-9th $149
ROBLOX® Coders & Entrepreneurs!

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 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-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.

$10 license fee per student with this class
Compatible with MAC and Windows OS only.
Rising 6th–9th $159

Minecraft Modders

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mods! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student 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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only. Purchase Minecraft Java Edition.
Rising 6th–9th $149

WEEK 10: AUG. 3–7 morning academies

Dr. Seuss Is On The Loose*

"Join Thing One and Thing Two and step into the wonderful world of Dr. Seuss! Let’s work and play together all week long to discover all of the amazing adventures that Dr. Seuss has in store. Can you find the Cat in the Hat as he sneaks between camper’s houses? Campers will work together to solve puzzles, create fun names for mythical creatures, and make their very own Truffula Tree!"

**All devices require either an internal or external microphone and webcam
Pre-K $149

Game Show Mania*

"Campers, COME ON DOWN! Contestants, are you ready to compete in the first-ever Summer Camp Game Show? Create, play, and record your very own game show experience where the sky’s the limit! Setting the bar for friendly competition and fun, each day will give campers the opportunity to test their limits, work in a team, and prepare for Friday's Ultimate Game Show Challenge!"

**All devices require either an internal or external microphone and webcam
Rising 1st–2nd $149
## WEEK 10: AUG. 3-7

### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16802</td>
<td>8:30 a.m.*</td>
<td>Dr. Seuss Is On The Loose</td>
<td>Drbots Company</td>
</tr>
<tr>
<td>1st-2nd</td>
<td>16803</td>
<td>8:30 a.m.*</td>
<td>Game Show Mania</td>
<td>Drbots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16792</td>
<td>8:30 a.m.*</td>
<td>Magical Performance Camp</td>
<td>Drbots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>15583</td>
<td>8:45 a.m.-noon</td>
<td>Spooky, Groovy Science</td>
<td>Megan Bailey CHEC</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16650</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Battle Royale: Make Your First Fortnite ® Style Video</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16628</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Python Programmers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16801</td>
<td>8:30 a.m.</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drbots Company</td>
</tr>
<tr>
<td>6th-9th</td>
<td>15609</td>
<td>8:45 a.m.-noon</td>
<td>Career Exploration</td>
<td>Deborah Ashby</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16614</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Video Game Animation</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16864</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>ROBLOX® Makers</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

### afternoon academies

| 3rd-6th| 15584 | 1–4:15 p.m. | Acid Meets Base-Volcano?                         | Ruei-Jen Fan CHEC           |
| 3rd-6th| 16615 | 1:30-4:30 p.m. | Video Game Animation                            | Black Rocket                |
| 3rd-6th| 16874 | 1:30-4:30 p.m. | ROBLOX® Makers                                  | Black Rocket                |
| 6th-9th| 15581 | 1:30-4:30 p.m. | Invent with 3D Printers                          | John Haverkamp              |
| 6th-9th| 16730 | 1:30-4:30 p.m. | Battle Royale: Make Your First Fortnite ® Style Video Game | Black Rocket                |
| 6th-9th| 16627 | 1:30-4:30 p.m. | Python Programmers                              | Black Rocket                |

* Class times vary. Please click class link to view times.

### Magical Performance Camp*

“Abra Kadabra Alakazam, let’s join Magic Camp as fast as we can! In this awesome program we will be exploring the amazing world of close up magic! Learn to hide cards, make coins disappear and even read the minds of your audience. Prepare to come up with your magic name, put together a show, and perform for your friends and family! Zippity Tah, Zippity Zoo...Now We’ll See You Soon! Program Specific Kit $35 is included in the tuition for this class. This kit will be mailed to you, prior to the start date of this class.

All devices require either an internal or external microphone and webcam.

| Rising 3rd-6th | $184 |

*Common household items for supplies

Compatible computers or devices:

- iPad (iOS Device)
- Tablet (Android Device)
- Tablet (Microsoft Device)
- Mac Computer (with OS Operating System)
- PC Computer (with Windows Operating System)
- Chromebook (with Android Operating System)
15583

**Spooky, Groovy Science**

Have you ever watched a movie and wondered, “How did they make that blood look so real?” Have you walked through a haunted house with your eyes closed because it was too scary? You will reveal many of the mysteries behind movie special effects, magic tricks and even those spooky “fun” houses. You will explore how sounds and light can influence how we perceive our environment. For example, would you still be frightened if your favorite song was playing instead of the spooky one? Come uncover the secrets behind these “spooky” mysteries!

**Rising 3rd-6th** $149

16650

**Battle Royale: Make Your First Fortnite ® Style Video**

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. You can participate in eSports League matches against other schools across the country with a chance to have your 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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system

Compatible with MAC and Windows OS only.

**Rising 3rd-6th** $149

16628

**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! Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years?

* $10 license fee per student with this class

Compatible with MAC, Windows and Chrome OS.

**Rising 3rd-6th** $159
Create & Host Your Own ESPN Sports Highlight Show

In sports, there was a time when coaching, management, and decision-making came down to instinct, experience and tradition. Over the last 20 years, statistical analysis has become the new normal for sports teams. This summer, you will have the opportunity to develop skills in sports analytics, become a truly knowledgeable sports fan, improve your skills in fantasy sports, and maybe launch a career in the world of sports one day! The hit movie Moneyball opened the eyes to the world of sports statistics and challenged everyone on how to simply think differently. Now middle and high school students are learning how to dissect video footage to analyze their favorite sports teams. Develop public speaking, writing, recording and editing skills. Now is your opportunity to learn more about how coaches and general managers of sports teams analyze their teams and players. During this camp, you will have the opportunity to pick your favorite sports team or player and put together a portfolio and analysis on how best they can improve.

TYPE C | COMPUTER REQUIREMENTS:

1. Mac Operating System Version: 10.7 (macOS Lion) or Newer Processor: 1.1 GHz or Higher Memory: 2 GB or More Requires Web Browser (ie: Safari, Firefox, Chrome, etc). or

2. PC Windows Operating System Version: Windows 7 SP1+, 8, 10 or greater Processor: 1.1 GHz of Higher Installed RAM: 2 GB or Greater Requires Web Browser (ie: Internet Explorer, Firefox, Chrome, etc) or

3. Chromebook 2017-2020 Any model Chromebook Made in 2017 or Newer

Career Exploration

YOU’RE HIRED! Words everyone wants to hear. In Career Exploration you will explore career interests through fun and interactive career inventories and assessments. You will develop a resume, practice interviewing skills and discover careers and that interest you. What do you want to be when you grow up? A teacher, a scientist, a doctor, a farmer? In Career Exploration, you’ll explore career possibilities in Virginia Department of Education’s 16 different career clusters. We’ll take the skills you’ve gained in school, at home and in your community to construct a one-page resume. We’ll design business cards and flyers for employment possibilities this summer. Career Exploration will help you prepare for your future now and give you resources to continue searching future options.

Rising 6th-9th $99

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. Games are only compatible on PC computers; Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.

Rising 6th-9th $149
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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.
Rising 6th–9th $149

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. Games are only compatible on PC computers; Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.
Rising 3rd–6th $149

Acid Meets Base—Volcano?
You probably didn’t realize we use acids and bases every day! For instance, although ‘acidic’ probably doesn’t spring to mind when you bite into a tomato, you’re actually tasting acidic juice. In this chemistry class you will investigate acids, bases, crystals and polymers through engaging activities like making rock candy, building volcanos and mixing up crazy putty. In the end, you will make your own ice cream in a bag or with dry ice.

Rising 3rd–6th $149

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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.
Rising 3rd–6th $149
Invent with 3D Printers

3D printers can transform the world! Become an inventor. Make something completely unique and useful. How will you design your new invention? What other uses might your invention have in the world? Learn about 3D technology use and the advanced manufacturing field.

Computer Requirements: Students must use a Mac or PC.

This program cannot run on a tablet, iPad or phone.

**Rising 6th-9th** $99

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. You can participate in eSports League matches against other schools across the country with a chance to have your 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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system

Compatible with MAC and Windows OS only.

**Rising 6th-9th** $149

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!? Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years?

$10 license fee per student with this class

Compatible with MAC, Windows and Chrome OS.

**Rising 6th-9th** $159
### WEEK 11: AUG. 10–14

#### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16795</td>
<td>8:30 a.m.*</td>
<td>Mini Minions</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st–2nd</td>
<td>16796</td>
<td>8:30 a.m.*</td>
<td>Incredible Inventors</td>
<td>Drobots Company</td>
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<tr>
<td>3rd–6th</td>
<td>16797</td>
<td>8:30 a.m.*</td>
<td>Magical Performance Camp</td>
<td>Drobots Company</td>
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<td>3rd–6th</td>
<td>16756</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Minecraft Redstone Engineers</td>
<td>Black Rocket</td>
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<td>3rd–6th</td>
<td>16535</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>YouTube Content Creators</td>
<td>Black Rocket</td>
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<tr>
<td>6th–9th</td>
<td>16596</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Rocket Kart Racers: Design a Mario Kart Style Game</td>
<td>Black Rocket</td>
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<tr>
<td>6th–9th</td>
<td>16876</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Code Breakers</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.

#### afternoon academies

| 3rd–6th  | 16588   | 1:30–4:30 p.m. | Rocket Kart Racers: Design a Mario Kart Style Game   | Black Rocket       |
| 3rd–6th  | 16878   | 1:30–4:30 p.m. | Code Breakers                                         | Black Rocket       |
| 6th–9th  | 16766   | 1:30–4:30 p.m. | Minecraft Redstone Engineers                         | Black Rocket       |
| 6th–9th  | 16536   | 1:30–4:30 p.m. | YouTube Content Creators                              | Black Rocket       |

#### Mini Minions*

“Come and join our Mini Minions for a week as we celebrate the release of Minions: The Rise of Gru. Campers will practice their Minionese language skills and go on a virtual scavenger hunt to track down the elusive Gru. By the end of the week, all of our Mini Minions will make costumes and compete in Gru’s Academy of Mischief to see if they have what it takes to be a true Minion!

All devices require either an internal or external microphone and webcam.

Pre-K $149

#### Incredible Inventors*

“To invent, you need a good imagination and a pile of junk.” — Thomas A. Edison Campers, put on your thinking caps and get ready to innovate! Scheme with fellow campers to create out-of-the-box inventions to solve everyday problems. Using simple everyday items, campers will collaborate to make their favorite invention ideas come to life!

All devices require either an internal or external microphone and webcam.

Rising 1st–2nd $149
16797
Magical Performance Camp*

*Abra Kadabra Alakazam, let’s join Magic Camp as fast as we can! In this awesome program we will be exploring the amazing world of close up magic! Learn to hide cards, make coins disappear and even read the minds of your audience. Prepare to come up with your magic name, put together a show, and perform for your friends and family! Zippity Tah, Zippity Zoo...Now We’ll See You Soon!

Program Specific Kit $35 is included in the tuition for this class. This kit will be mailed to you, prior to the start date of this class.

All devices require either an internal or external microphone and webcam.

Rising 3rd–6th $184

*Common household items for supplies

Compatible computers or devices:

- iPad (iOS Device)
- Tablet (Android Device)
- Tablet (Microsoft Device)
- Mac Computer (with OS Operating System)
- PC Computer (with Windows Operating System)
- Chromebook (with Android Operating System)

16756
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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.

Rising 3rd–6th $149

16535
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. Students work in pairs or teams for most of the program.

A webcam is required for this course.

Compatible with MAC and Windows OS only.

Rising 3rd–6th $149
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. Students will work in pairs or teams for most of the program.

This requires a 64-bit operating system
Compatible with MAC and Windows OS only.

Rising 6th-9th $149

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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC, Windows and Chrome OS.

Rising 6th-9th $149
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. Students will work in pairs or teams for most of the program.

Compatible with MAC and Windows OS only.

Rising 6th-9th $149

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. Students work in pairs or teams for most of the program.

A webcam is required for this course.

Compatible with MAC and Windows OS only.

Rising 6th-9th $149
## WEEK 12: AUG. 17–21

### morning academies

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-K</td>
<td>16793</td>
<td>8:30 a.m.*</td>
<td>Super Safari</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>1st–2nd</td>
<td>16806</td>
<td>8:30 a.m.*</td>
<td>Movie Making: Commercials &amp; Trailers</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16643</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Virtual Reality: The Future is Now!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd–6th</td>
<td>16880</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>App. IO: Make Your First Multiplayer App!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th–9th</td>
<td>16794</td>
<td>8:30 a.m.*</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>6th–9th</td>
<td>16569</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>eSports Apprentice: Streamers &amp; Gamers</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th–9th</td>
<td>16571</td>
<td>9:30 a.m.–12:30 p.m.</td>
<td>Minecraft Designers</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

*Class times vary. Please click class link to view times.

### afternoon academies

| 3rd–6th | 16570   | 1:30–4:30 p.m. | eSports Apprentice: Streamers & Gamers | Black Rocket                 |
| 3rd–6th | 16579   | 1:30–4:30 p.m. | Minecraft Designers                                               | Black Rocket                 |
| 6th–9th | 16646   | 1:30–4:30 p.m. | Virtual Reality: The Future is Now!                               | Black Rocket                 |
| 6th–9th | 16881   | 1:30–4:30 p.m. | App.IO: Make Your First Multiplayer App!                           | Black Rocket                 |

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### Super Safari*

Day campers are on a mission to find the most exciting and rare animals in the jungle. Campers will crawl through the tall grass and peer at some of nature's most magnificent creatures. We will be making our own binoculars, field guides, and safari hats before heading out on a one-of-a-kind camp adventure.

All devices require either an internal or external microphone and webcam.

**Pre-K** $149

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### Movie Making: Commercials & Trailers*

We are ready to make our own commercials and trailers! Put on your beret and sunglasses for this hyper-creative movie making program. All campers will design, direct, film, edit, and present their projects. Young movie makers (and stars) will learn the ins and outs of movie making and editing software. From pre-production storyboarding to camera angle technique, all campers will have the opportunity to challenge themselves creatively and socially as they work in teams to produce a final project that will be aired for the whole camp!

**Prerequisite**: iPad or camera that can upload images to computer

Smartphone or Tablet (iPad; Android; Kindle Fire HD, etc) with a camera that can download the iMovie app from the Apple App store or VideoShow App from GooglePlay for Android App store

All devices require either an internal or external microphone and webcam.

**Rising 1st–2nd** $149
*Common household items for supplies
Compatible computers or devices:
• iPad (iOS Device)
• Tablet (Android Device)
• Tablet (Microsoft Device)
• Mac Computer (with OS Operating System)
• PC Computer (with Windows Operating System)
• Chromebook (with Android Operating System)

16643
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. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family.

There is an additional $11 lab fee per student for the VR Headset.
Compatible with MAC, Windows and Chrome OS.

Rising 3rd-6th $160

16880
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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with Windows OS only.

Rising 3rd-6th $149
Create & Host Your Own ESPN Sports Highlight Show

In sports, there was a time when coaching, management, and decision-making came down to instinct, experience and tradition. Over the last 20 years, statistical analysis has become the new normal for sports teams. This summer, you will have the opportunity to develop skills in sports analytics, become a truly knowledgeable sports fan, improve your skills in fantasy sports, and maybe launch a career in the world of sports one day! The hit movie Moneyball opened the eyes to the world of sports statistics and challenged everyone on how to simply think differently. Now middle and high school students are learning how to dissect video footage to analyze their favorite sports teams. Develop public speaking, writing, recording and editing skills. Now is your opportunity to learn more about how coaches and general managers of sports teams analyze their teams and players. During this camp, you will have the opportunity to pick your favorite sports team or player and put together a portfolio and analysis on how best they can improve.

**TYPE C | COMPUTER REQUIREMENTS:**

1. Mac Operating System Version: 10.7 (macOS Lion) or Newer Processor: 1.1 GHz or Higher Memory: 2 GB or More Requires Web Browser (ie: Safari, Firefox, Chrome, etc). or

2. PC Windows Operating System Version: Windows 7 SP1+, 8, 10 or greater Processor: 1.1 GHz of Higher Installed RAM: 2 GB or Greater Requires Web Browser (ie: Internet Explorer, Firefox, Chrome, etc) or

3. Chromebook 2017-2020 Any model Chromebook Made in 2017 or Newer

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eSports Apprentice: Streamers & 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. Students will work in pairs or teams for most of the program. Videos will not be broadcast publicly but will be shared with all students in the class.

A webcam is required for this course Software is compatible with MAC and Windows OS only.

Rising 6th-9th $149

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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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only.

Rising 6th-9th $149
16570
**eSports Apprentice: Streamers & 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. Students will work in pairs or teams for most of the program. Videos will not be broadcast publicly but will be shared with all students in the class. A webcam is required for this course Software is compatible with MAC and Windows OS only. 

**Rising 3rd-6th** $149

16579
**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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with MAC and Windows OS only. 

**Rising 3rd-6th** $149

16646
**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 worlds, exploring simulated environments, and crafting memorable 3D experiences. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family.

There is an additional $11 lab fee per student for the VR Headset. 

Compatible with MAC, Windows and Chrome OS. 

**Rising 6th-9th** $160
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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Compatible with Windows OS only.

Rising 6th–9th $149

Kings, Queens & Castles

"Hear ye, hear ye! Calling all Lords and Ladies of the land. Join us in the Camp Kingdom as we take off on an adventure back in time. Campers will enjoy puppet shows, Renaissance dance parties, and the Noble Knight training course. Make your own Renaissance costume, complete with a family crest! Beware of Wise Wizard, as he's been known to cast spells and engage in jousting tournaments of mythical proportions!

All devices require either an internal or external microphone and webcam.

Pre-K $149

Adventures in Home Engineering

From simple Rube Goldberg Machines to complex autonomous systems, test your skills as an engineer in this exciting and creative camp! Explore the science of space and shape. Sketch, plan, and build model bridges, skyscrapers, railways, and much more. Test your projects to see how much strain they can take before they crumble to the ground.

All devices require either an internal or external microphone and webcam

Rising 1st–2nd $149

*Common household items for supplies

Compatible computers or devices:

- iPad (iOS Device)
- Tablet (Android Device)
- Tablet (Microsoft Device)
- Mac Computer (with OS Operating System)
- PC Computer (with Windows Operating System)
- Chromebook (with Android Operating System)
## WEEK 13: AUG. 24-28

<table>
<thead>
<tr>
<th>AGE</th>
<th>CLASS #</th>
<th>TIME</th>
<th>ACADEMY NAME</th>
<th>INSTRUCTOR</th>
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<tbody>
<tr>
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<td></td>
<td></td>
<td>morning academies</td>
<td></td>
</tr>
<tr>
<td>Pre-K</td>
<td>16798</td>
<td>8:30 a.m.*</td>
<td>Kings, Queens &amp; Castles</td>
<td>Drobots Company</td>
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<td>1st-2nd</td>
<td>16799</td>
<td>8:30 a.m.*</td>
<td>Adventures in Home Engineering</td>
<td>Drobots Company</td>
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<tr>
<td>3rd-6th</td>
<td>16800</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Create &amp; Host Your Own ESPN Sports Highlight Show</td>
<td>Drobots Company</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16735</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Make Your First Video Game!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>3rd-6th</td>
<td>16882</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Pokemon Masters: Designers &amp; 3D Makers Unite!</td>
<td>Black Rocket</td>
</tr>
<tr>
<td>6th-9th</td>
<td>16593</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>JavaScript Developer Jam</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>16658</td>
<td>9:30 a.m.-12:30 p.m.</td>
<td>Minecraft Animators</td>
<td>Black Rocket</td>
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<tr>
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<td>afternoon academies</td>
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<tr>
<td>3rd-6th</td>
<td>16594</td>
<td>1:30-4:30 p.m.</td>
<td>JavaScript Developer Jam</td>
<td>Black Rocket</td>
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<td>3rd-6th</td>
<td>16655</td>
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<td>Black Rocket</td>
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<td>6th-9th</td>
<td>16739</td>
<td>1:30-4:30 p.m.</td>
<td>Make Your First Video Game!</td>
<td>Black Rocket</td>
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<tr>
<td>6th-9th</td>
<td>16883</td>
<td>1:30-4:30 p.m.</td>
<td>Pokemon Masters: Designers &amp; 3D Makers Unite!</td>
<td>Black Rocket</td>
</tr>
</tbody>
</table>

* Class times vary. Please click class link to view times.

### 16800

**Create & Host Your Own ESPN Sports Highlight Show**

In sports, there was a time when coaching, management, and decision-making came down to instinct, experience and tradition. Over the last 20 years, statistical analysis has become the new normal for sports teams. This summer, you will have the opportunity to develop skills in sports analytics, become a truly knowledgeable sports fan, improve your skills in fantasy sports, and maybe launch a career in the world of sports one day! The hit movie Moneyball opened the eyes to the world of sports statistics and challenged everyone on how to simply think differently. Now middle and high school students are learning how to dissect video footage to analyze their favorite sports teams. Develop public speaking, writing, recording and editing skills. Now is your opportunity to learn more about how coaches and general managers of sports teams analyze their teams and players. During this camp, you will have the opportunity to pick your favorite sports team or player and put together a portfolio and analysis on how best they can improve.

**TYPE C | COMPUTER REQUIREMENTS:**

1. Mac Operating System Version: 10.7 (macOS Lion) or Newer Processor: 1.1 GHz or Higher Memory: 2 GB or More Requires Web Browser (ie: Safari, Firefox, Chrome, etc).
2. PC Windows Operating System Version: Windows 7 SP1+, 8, 10 or greater Processor: 1.1 GHz of Higher Installed RAM: 2 GB or Greater Requires Web Browser (ie: Internet Explorer, Firefox, Chrome, etc)
3. Chromebook 2017-2020 Any model Chromebook Made in 2017 or Newer

**Rising 3rd–6th**

**$149**
16735

**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, Mac versions can be created after the program for $15 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.

Compatible with Windows OS only.

**Rising 3rd-6th** $149

16882

**Pokémon® Masters: Designers and 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 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 and 3D designs 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.

This is a limited release only available for BR Instructor Creator Corps Schedules.

*Compatible with MAC and Windows OS only.

**Rising 3rd-6th** $149

16593

**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. Students will work in pairs or teams for most of the program.

$10 license fee per student with this class.

Compatible with MAC, Windows and Chrome OS.

**Rising 6th-9th** $159
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. Students will work in pairs or teams for most of the program. 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.
Rising 6th-9th $149

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. Students will work in pairs or teams for most of the program.
$10 license fee per student with this class.
Compatible with MAC, Windows and Chrome OS.
Rising 3rd-6th $149

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, Mac versions can be created after the program for $15 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.
Compatible with Windows OS only.
Rising 6th-9th $149
SCHOLARSHIPS

KidsCollege@PVCC is committed to increasing access to our educational programs.

To apply for a financial need-based scholarship:

- The four-part scholarship application must be fully completed before it will be reviewed.
- Scholarships are available on a first-come, first-served basis.
- Academies are open on a space available basis.
- No academy spots are reserved until the scholarship has been approved and the partial fee payment received.
- Limit of four academies per student scholarship.

Partial Scholarships:

Partial scholarships are provided for students that qualify and provide verification for the free/reduced school lunch income eligibility guidelines. After your completed application has been received, you will be notified of the scholarship decision and the remaining tuition fee amount due. The partial tuition fee must be paid BEFORE a student is registered for an academy.

Louis Stokes Alliance for Minority Participation (LSAMP)

The Louis Stokes Alliance for Minority Participation (LSAMP) scholarship, named in honor of former congressman Louis Stokes, is a NSF funded program intended to support historically underrepresented students in the STEM fields. To learn more about LSAMP visit our LSAMP webpage.

Scholarship Application:

Visit our scholarship webpage for the scholarship application form.

Questions? Call 434.961.5354 or email kidscollege@pvcc.edu.

Special Thanks:

Scholarships are provided thanks to the generous support of the Albemarle County Rotary Club, Fluvanna County Public Schools, Freas Foundation, National Science Foundation (grant#1202181), and individual contributions.