



Computer Camp

FOR STUDENTS AGES 7-14

ADVENTURES IN SCRATCH PROGRAMMING (AGES 9-14)

Scratch is the wildly popular educational programming language used by millions of first-time learners in classrooms and homes worldwide. By dragging together colorful blocks of code, campers can learn computer programming concepts and make cool games and animations. They will think creatively and learn how to program their own stories, games, and animations. *All work is done online and an email address will be needed to register.*

Tuition and fees: \$160.

NCTEC-CC028-01 July 24-28 8:30-11:30am

NCTEC-CC028-02 Aug 7-11 8:30-11:30am

APP ADVENTURES! THE NEXT LEVEL (AGES 7-14)

Continue your quest to make the next viral app! Whether you want to move past the basic techniques learned in *App Attack* or want to jump right in we are ready for you! Students will choose from a selection of different web-based (HTML5) mobile apps and explore more in-depth programming concepts. *Student projects will be accessible on a Black Rocket site and can be played on any mobile device or computer. Publishing to App Stores not included. No prior experience is necessary and students do not need to own a smart phone or tablet to take the class. Students will be working in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.* Tuition and fees: \$195.

NCTEC-CC001-01 July 24-28 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC001-02 July 24-28 1-4pm

(Ages 10-14 preferred)
Black Rocket Productions



APP ATTACK! (AGES 7-14)

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. No prior experience is necessary. Students do not need to own a smart phone or tablet to take the 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.* Tuition and fees: \$195.

NCTEC-CC002-01 July 10-14 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC002-02 July 10-14 1-4pm
(Ages 10-14 preferred)

Black Rocket Productions

CODE BREAKERS (AGES 7-14)

Calling all future coders, programmers and designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of web projects and design challenges each day and be on your way to becoming the next tech star! Whether you want to be the next Mark Zuckerberg or the high school student who just made one million dollars for programming in his bedroom, this course has the essentials you need to begin your journey. *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. Returning students can create more advanced projects that build on previous years.* Tuition and fees: \$195.

NCTEC-CC003-01 Aug 7-11 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC003-02 Aug 7-11 1-4pm
(Ages 10-14 preferred)

Black Rocket Productions



DESIGN YOUR OWN BUSINESS (AGES 9-14)

Learn the foundations of sound business practice. Use the computer to design a product such as sneakers, tools, a bicycle, or a motorcycle, whatever you choose. Then, develop a company around the product. Design a logo! Set prices! Learn how to use and analyze spreadsheets and net worth statements. Create advertisements! Plan your marketing campaign, conquer the competition, and acquire a variety of new computer skills. Tuition and fees: \$165.

NCTEC-CC015-01 June 26-30 8:30-11:30am
NCTEC-CC015-02 Aug 7-11 1-4pm

GAME LABS: COLLABORATE- CREATE- COMPETE IN THE ULTIMATE VIDEO GAME EXPERIENCE (AGES 7-14)

For serious gamers only! Beyond 2D and 3D, now it's time to take it to another level by competing with the world! Students will develop games with a partner using a unique game engine. Students will learn advanced level editing, simple 3D modeling, intermediate event scripting and the impact of game play on user experience.

Students will work in pairs or teams for most of the program. System Requirements for home experience: 2GB of RAM, and 2.0GHZ processor. Tuition & fees: \$195.

NCTEC-CC029-01 July 17-21 8:30-11:30am
(Ages 7-10 preferred)
NCTEC-CC029-02 July 17-21 1-4pm
(Ages 10-14 preferred)
NCTEC-CC029-03 Aug 14-18 8:30-11:30am
(Ages 7-10 preferred)
NCTEC-CC029-04 Aug 14-18 1-4pm
(Ages 10-14 preferred)
Black Rocket Productions

GRAPHICS & DESIGN FUN (AGES 9-14)

Are you planning on designing your own business, hosting a party or event, or do you want to personalize your back-to-school binders? Harness the power of Microsoft's Publisher program and Internet photo editing software to create posters, calendars, cards and more. Click, drag and design, all in one class! Tuition and fees: \$160.

NCTEC-CC016-01 July 31-Aug 4 1-4pm

LEGO™ COMICS: DESIGN YOUR OWN ADVENTURE! (AGES 7-14)

In this LEGO adventure YOU are the star! Pick your favorite LEGO genre or create an alternate universe to create a digital illustrated story or graphic novel. Whether you want to fight alongside Superheroes, create a Minecraft™ story, hang with the Nexo Knights™, or go into space with Rey and Finn, the only requirement is that you put yourself in the story! *All students will end the class with a digital comic book that can be shared with friends and family on a password protected website! Students will work in teams for most of the program.*

Tuition & fees: \$156.

NCTEC-CC024-01 July 3-7* 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC024-02 July 3-7* 1-4pm
(Ages 10-14 preferred)

*No class July 4.

Black Rocket Productions

LEGO™ VIDEO GAMES (AGES 7-10)

Students will create their own LEGO characters and adventures in an interactive 2D Video Game. Everyone is welcome in this one-of-a-kind class. *At the end of the program, every student will have a finished LEGO Video Game that can be shared with friends and family through a password protected Black Rocket website.*

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

Tuition & fees: \$156.

NCTEC-CC019-01 July 3-7* 1-4pm

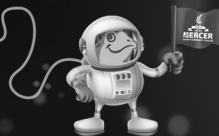
*No class July 4.

Black Rocket Productions

Looking For More?

Our full-day ARCHAEOLOGY AND PALEONTOLOGY CAMP offers off-campus adventures digging into the past. At SEA CAMP, students work with experienced environmental instructors in the outdoor "Laboratory" of Sandy Hook. Both camps are for ages 10-14. See pg. 24 for details.

Counselor in Training See Page 24



MAKE YOUR FIRST VIDEO GAME (AGES 7-14)

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 2-D platformer game. Conceptualization, play experience, level, design graphics, sounds, and simple coding are just some of the concepts that we'll explore. No prior experience necessary, just a desire to have fun. *Student created games will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers, Mac versions can be created after the program for \$15.00 conversion fee. Students will work in teams for most of the program. Returning students can create more advanced projects that build on previous years.* Tuition and fees: \$195.

NCTEC-CC008-01 June 26-30 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC008-02 June 26-30 1-4pm
(Ages 10-14 preferred)

NCTEC-CC008-03 July 31-Aug 4 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC008-04 July 31-Aug 4 1-4pm
(Ages 10-14 preferred)

Black Rocket Productions

MINECRAFT™ ANIMATORS (AGES 7-14)

Bring your favorite Minecraft™ characters to life in an animated short film! Learn how studios like Pixar™ and Disney™ make movies like *Inside Out™* and *Frozen™* through using techniques like keyframing, tweening, texturing and animating rigged 3-D models! *Student projects will be available on a password protected website to share with friends and family. You do not need to own a Minecraft™ account to use the software in 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.* Tuition and fees: \$195

NCTEC-CC022-01 July 10-14 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC022-02 July 10-14 1-4pm
(Ages 7-10 preferred)

NCTEC-CC022-03 Aug 14-18 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC022-04 Aug 14-18 1-4pm
(Ages 7-10 preferred)

Black Rocket Productions

MINECRAFT™ DESIGNERS (AGES 7-14)

If you love the game Minecraft, and always wanted to design your own world, this class is for you! Learn how to create a custom map, the basics of creating 3D models using a new software to design your very own objects, how to build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends. **To access their projects at home students, must own a PC/MAC version of Minecraft. Tablet, phone, and game console versions of Minecraft are not compatible.** Parent email address is required to use 3D modeling software. *Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.* Tuition & fees: \$195.

NCTEC-CC010-01 July 24-28 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC010-02 July 24-28 1-4pm
(Ages 7-10 preferred)

Black Rocket Productions

MINECRAFT™ MODDERS (AGES 7-14)

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mod! Introductory coding will also be taught through a simulated environment inspired by Minecraft™. *Student projects will be available on a Black Rocket website to share with friends and family. To access their project at home students must own a PC/MAC version of Minecraft™. Tablet, phone, and game console version of Minecraft™ are not compatible.* *Students will work in teams, or pairs for most of the program. Returning students can create more advanced projects that build on previous years.* Tuition and fees: \$195.

NCTEC-CC011-01 July 17-21 8:30-11:30am
(Ages 7-10 preferred)

NCTEC-CC011-02 July 17-21 1-4pm
(Ages 10-14 preferred)

NCTEC-CC011-03 July 31-Aug 4 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC011-04 July 31-Aug 4 1-4pm
(Ages 7-10 preferred)

Black Rocket Productions

Music and Voice Production Camp (AGES 10-14)

See page 28 for course description.

NCTEC-CC015-01 July 24-28 8:30am-4pm





N STAR WARS™ STOP ANIMATION (AGES 7-14)

Make your own Star Wars™ adventure come to life! Bring in your favorite action figure and create a short film with your friends. Whether you want to recreate a scene from Star Wars or design a new world of your own, this class brings your dreams to the screen. **Students will need to bring in Star Wars action figures or vehicles from home, but all other equipment provided.**

Student-created films will be available on a password protected website to share with friends and family. Student will work in pairs or teams for most of the program. Tuition & fees: \$195.

NCTEC-CC025-01 June 26-30 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC025-02 June 26-30 1-4pm
(Ages 7-10 preferred)

Black Rocket Productions

N TOY DESIGNERS: MAKE YOUR FIRST TOY (AGES 7-14)

Calling all boys and girls who want to be toy designers of the future! In this class, if you can dream it you can make it - create your first action figure, superhero, or make a new toy or figurine. By conceptualizing and designing their own 3D models, students will learn how to sculpt, texture, and render their first toy! *No prior experience is necessary and 3D designs will be available on a password-protected Black Rocket website to share with friends and family. (3D prints may be purchased separately through an online provider.)* Students will work in pairs or teams for most of the program. Tuition & fees: \$195.

NCTEC-CC026-01 June 19-23 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC026-02 June 19-23 1-4pm
(Ages 7-10 preferred)

Black Rocket Productions

N VIDEO GAME ANIMATION (AGES 10-14)

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 story line. 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 website to share with friends and family. Games are only compatible on PC computers; Mac versions can be created after the program for \$15.00 conversion fee. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.* Tuition and fees: \$156.

NCTEC-CC031-01 July 3-7* 8:30-11:30am
*No class July 4.

Black Rocket Productions

N VIRTUAL REALITY: THE FUTURE IS NOW! (AGES 7-14)

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 at home a camper will need access to an Android or Apple mobile device.** *Students will work in pairs or teams for most of the program.*

Tuition & fees: \$214 (\$195 + \$19 for VR headset).
NCTEC-CC027-01 July 17-21 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC027-02 July 17-21 1-4pm
(Ages 7-10 preferred)

NCTEC-CC027-03 Aug 14-18 8:30-11:30am
(Ages 10-14 preferred)

NCTEC-CC027-04 Aug 14-18 1-4pm
(Ages 7-10 preferred)

Black Rocket Productions

