

# Technology Kids Camp Course Descriptions

## Grades 3<sup>rd</sup>-8<sup>th</sup>

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

### **Make Your First 3D Video Game!**

Try this new version of a Black Rocket classic! This class allows you to develop a game concept that goes well beyond the limitations of the traditional 2D game design classes and create an immersive 3D world. Students will learn the physics behind 3D games, explore beginner event scripting, level design, controlling flow of gameplay, and storytelling. 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.

### **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. To access their project at home students must own a PC/MAC version of Minecraft. Tablet, phone, and game console versions of Minecraft are not compatible. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

### **LEGO® Video Games**

Combine your two favorite activities: LEGOs and Video Games! 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 \$15.00 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.

### **Star Wars® Stop Animation**

Make your own Star Wars adventure come to life! Bring in your favorite action figures or Star Wars 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. Students will work in pairs or teams for most of the program.

### **Minecraft® Animators**

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* by using techniques like key framing, tweening, texturing, and animating rigged 3D models! Student projects will be available on a password protected Black Rocket 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. 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.