

Imagine That! &



FUTURE TECH

# SCIENCE, MINECRAFT, 3D PRINTING, ROBOTICS, TECHNOLOGY, CODING, and VIDEOGRAPHY Camps

Offered at *MANY* locations throughout Atlanta

[www.ImagineThatFUN.com](http://www.ImagineThatFUN.com)

770-455-1980

Unbelievably FUN and EDUCATIONAL CAMPS held at Roswell Parks and Recreation!

Please view our [website](#) for detailed program overviews, a listing of our many locations, & more.

## Minecraft, Robotics, Videography, Programming, Gaming and 3D Printing



### Commanding Minecraft Ages: 8-11

In this camp, students will learn the basics of game and level design using Command Blocks in Minecraft! Students will learn about Redstone, gain an understanding of Command Blocks and their infinite uses, then work together to create their own adventure map and game in Minecraft. This is a great introduction to game design without having to learn a programming language. Students will type their own scripts into the command blocks through the Minecraft game engine.

### 3D Printing and CAD Creations Ages 11-14

Bring your child's imagination to life with Dremel Idea Builder and Auto Desk Tinker CAD in this amazing 3D Printing summer camp.

Using problem-based learning our students will have the power to build their imaginations!

With Tinker CAD, students will be able to create, move, rotate and scale their abstract models before printing. They will see the tangible results as they refine and print their 3D design.



**RoboCode: Robotics and Programming Ages 8-11** An introduction to Programming and Robotics using LEGO MINDSTORMS™ NXT Robots and CodeCombat. The students will have a great time as they really get to understand what makes a robot operate.

Explore **Programming and Robotics** with Lego® MINDSTORMS® NXT robots! Your child will explore all of the sensors such as Touch, Light, Sound, and Ultrasonic so they can gain an understanding of how each sensor works. **Coding:** Imagine That's! Kids will have a great time learning Coding Language using CodeCombat! Students will use this platform to learn the science behind computer programming. Students will choose an Avatar and win armor and gems as they write Python code and play the game in real time.

**Lights! Camera! Action! Ages 8-12** This amazing camp will introduce Video Production & Stop Motion Videos.

**Video Production:** We will cover the art of composition. This includes storyboarding lighting, audio, the rule of thirds, and deciding which shots are worthy of final video. Students will learn the history of filmmaking and the technical skills needed for filming and editing. The final product being displayed at the First Annual Imagine That! Film Festival!

**Stop Motion Video Production:** Then we are on to an introduction to Stop Motion Videos where students will create their own stop motion film. Using logic and creativity results in all around great fun!



## Science, Robotics, Technology and Combination Camps

### Roborific Scientific! K-2nd An exciting Robotics, Technology, & Science Adventure!

This will be an incredible combination of Science and Technology where we will build and program the LEGO® Education WeDo Robots, perform experiments that will boggle your mind, and have the children saying "NO WAY!"

**Science:** In this Phenomenal **Physics** class your child will make a working flashlight as they learn about circuitry, electricity and magnetism. They can take this home with them! We will have a blast with Newton as we learn about action, reaction, force and friction! We will work with water balloons, colliding and bouncing balls!

**Technology:** Your child will go on a building and programming adventure as they make their builds come to life using drag and drop programming with motorized LEGO WeDo™ Robots. Children will build and program a "Bulldozer" and a "Forklift" and much more!



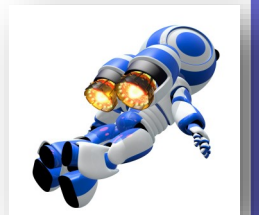
### Rockets and Robots! 3-2-1 Blast Off! 1st-3rd

An exciting Robotics, Science, Stop Motion and Coding Summer Camp Adventure!

**Rocket Science:** With our science kids will learn the principles of rocket flight as they blast off Balloon Rockets, Bottle Rockets, Straw Rockets, and Estes Rockets. Kids will learn about Newton's Law as we make a Newton's Car and a Balloon Car. Wait until you hear about our astronaut boot camp!

**Boost Robot:** Boost is the newest robotics kit available to our younger robotics kids. Students will build a the robot as they begin to learn the programming process. **Coding:** How great would it be if you had been able to start writing code at an early age? Our students are going to experience 3 different coding languages.

**Stop Motion Video:** Next we will introduction to Stop Motion Videos where students will create their own stop motion film.

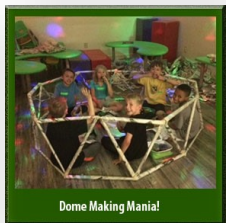


### Build It and...Break It! 3rd-5th Science and Technology Extravaganza

This camp is an amazing combination of fun hands-on Science, Engineering and LEGO® Technology.

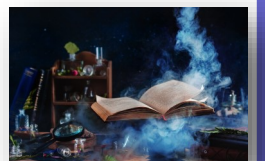
**Technology** will incorporate LEGO® Education Pneumatics, Motorized and Non-motorized LEGO® activities. Builds include "The Tower Crane" and "The Windmill" which introduce gears and pulleys, structural design, forces and motion, energy and more! Students will understand Pneumatic Power as we build the Chair Lift.

**Science and Engineering:** We will build large models of a pinball machine, a dome, and a trebuchet. We will explore Newton's Laws with our advanced balls and tracks. Students will create a Maglev racer that they can take home. They will have the opportunity to race these on the Maglev train track.



### Wacky Science Magic Ages 5-7 Hands On Science Extravaganza

Mystery and Magic are yours as the O.X.Y.S. (Only Excellent Youth Scientists) match their wits against Dr. Lipid, Head of the Organization of M.O.R.O.N.S. (Magical Ogres Reshaping Our Natural Systems). Wait until you see the exciting science principles that your child learned in the magic show at the end of camp! Children will use these principles to work their way through a maze and out of the Castle of Dr. Lipid! We will use many mysteries to escape from the rooms such as gravity defying boxes, dry ice, magical color changing liquids and amazing vacuums!



# Schedule for Imagine That! and Future Tech camps at Roswell Parks and Recreation

Please go to Roswell Parks [website](#) to register.

To find our more about each option, please go to [www.imaginedthatfun.com](http://www.imaginedthatfun.com)

Subject	Week
Build It and...Break It	6/18-6/22
Roborific Scientific	6/18-6/22
Lights! Camera! Action!	6/25-6/29
Rockets and Robots	6/25-6/29
Commanding Minecraft	7/16-7/20
Wacky Science Magic	7/16-7/20
3D Printing and Cad Creations	7/23-7/27
RoboCode	7/23-7/27