2020 SUMMER ONLINE PROGRAMS
FOR HIGH-SCHOOL, MIDDLE-SCHOOL & ELEMENTARY-SCHOOL AGED STUDENTS

CENTER LOCATIONS:
Herndon: 13505 Dulles Technology Dr., Suite 1, Herndon, VA 20171
Chantilly/South Riding: 43250 Stonewall Pond St., Chantilly, VA 20152
Ashburn: 44335 Premier Plaza, Suite 220, Ashburn, VA 2014
Fairfax/Falls Church: 9477b Silver King Ct., Fairfax, VA 22031

Register ONLINE: https://curielearningregistration.com/

Center Office Hours Till June 14th, 2020:
South Riding Center ONLY
From 6 pm - 8 pm - Monday through Friday

MOST CLASS PRICES ARE DISCOUNTED DUE TO COVID-19 CIRCUMSTANCES

SUMMER BRIDGE MATH PROGRAM

Contact by phone: 703-798-6808
Contact by email: curielearning@gmail.com

[Please note that the contact number for the Bridge Program is different from the Summer Camp contact number. If you are interested in both programs, please be sure to contact both numbers/emails.]

This eight-week program is recommended for students who are new to our program, especially for those who plan to join our program for the upcoming school year. The curriculum for this course is the same material that is taught in our program for the previous school year, (for example, a rising 6th grade student will be given our Level 5 curriculum); this will give the student a boost for the upcoming school year’s program.

The tutoring will be conducted in a small group setting according to grade level. Students will be given homework after every session which will need to be done before the next class. Parental support will be needed to help monitor the homework, and parents will be given answer keys.

$695

<table>
<thead>
<tr>
<th>Rising Grade</th>
<th>Rising 3rd Grade</th>
<th>Rising 4th Grade</th>
<th>Rising 5th Grade</th>
<th>Rising 6th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online</td>
<td>Monday &amp; Wednesday 6pm – 7:30pm 6/22 - 8/12</td>
<td>Monday &amp; Wednesday 7:30pm – 9pm 6/22-8/12</td>
<td>Tuesday &amp; Thursday 6pm – 7:30pm 6/23-8/13</td>
<td>Tuesday &amp; Thursday 7:30pm – 9pm 6/23-8/13</td>
</tr>
</tbody>
</table>

Note: This program is for students who have not enrolled in the previous school year’s (2019-2020) academic year Curie Learning program, but are interested in enrolling in Curie Learning 2020-2021 academic year program, Curie Learning is an advanced learning program, and students entering into the academic year program at any level have more success when they have some previous knowledge of material that is advanced for their grade level in school.
RISING 8TH GRADE TJ/AOS/AET PREP CLASSES

July 2020 - January 2021

Last chance for new students to join Curie TJ/AOS prep classes! Only a few students will be accepted after conducting an evaluation exam.

Contact by phone@ 703-582-0436 or 703-798-6808

SAT 1/PSAT/ACT COURSES

(Dr.Rao Mulpuri & Mr.Mike Hantman)

Contact by phone@ 703-798-6808 or 703-582-0436
Contact by email: curielearning@gmail.com

An eight-week course designed to prepare students for the new SAT/PSAT and ACT exams. This class includes preparation for both math and English portions of the exams. This course is highly recommended for rising 9th, 10th, or 11th Grade students. It will be taught by experts in SAT/ACT coaching with proven results. Classes meet twice a week.

$895

Online: Sunday 5pm – 7pm, and Tuesday 6:30pm – 8:30pm. June 23rd - August 18th

No classes on July 5th.

Writing College Application Essays

(for rising grades 10, 11, or 12)

Seven weeks course. This course provides intensive instruction and practice in writing college application essays. Students will write several of the Common Application essays, which are used in many universities’ application processes. The class involves peer editing; students must be comfortable sharing their writing and feedback with peers.

$325

Online: Tuesday 5:00pm – 6:30pm. June 23rd - August 4th

Writing the SAT Essay

(for rising grades 10, 11, or 12)

Seven weeks course. Students who will be taking the SAT with the essay portion in the next year will greatly benefit from this course. Students will engage in intensive practice writing SAT essays, eventually progressing to writing them within the 50-minute time limit. The class involves peer editing; students must be comfortable sharing their writing and feedback with peers.

$325

Online: Monday 5:00pm – 6:30pm. June 22nd - August 3rd
ENGLISH COURSES
Contact by phone@ 703-798-6808 or 703-582-0436.
Contact by email: curielearning@gmail.com

Non-Fiction English Reading and Writing:
This seven-week course focuses on strategies of reading non-fiction material. Students will write reports to demonstrate their reading comprehension, and reflection on the material read. This is highly recommended to improve reading comprehension skills, which is very important for academic success. The general knowledge gained through this course will help students in writing essays on diversified topics. In TJ/AOS admission process, success in the second cut exam requires knowledge on diversified non-fiction topics. This course will require the purchase of two non-fiction books. Once you have registered, an email will be sent to you listing the books that you will need to purchase.

**NOTE: The Continuing Math course is often coupled with the Non-Fiction Reading/Writing classes (see page 7).**

$250

<table>
<thead>
<tr>
<th>Rising Grade:</th>
<th>Rising 3rd Grade</th>
<th>Rising 4th Grade</th>
<th>Rising 5th Grade</th>
<th>Rising 6th Grade</th>
<th>Rising 7th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online</td>
<td>Tuesday 6:15pm – 7:45pm</td>
<td>Monday 6:00pm – 7:30pm</td>
<td>Wednesday 6:00pm – 7:30pm</td>
<td>Monday 7:30pm – 9:00pm</td>
<td>Wednesday 7:30pm – 9:00pm</td>
</tr>
</tbody>
</table>

MATHEMATICS COURSES

Continuing Math Program
(For Continuing Curie Learning students ONLY)

This seven-week instructional course continues the concepts taught during the previous academic school year. This class is strictly intended for students who have been attending through the previous school year, and who wish to continue with more concepts through the summer months. One extra unit will be taught per Level.

**NOTE: The Advanced Math course is often coupled with the Non-Fiction Reading/Writing classes (see page 2).**

$250

<table>
<thead>
<tr>
<th>Continuing Level:</th>
<th>Continuing Level 2 (Measurement Unit)</th>
<th>Continuing Level 3 (Pre-Algebra Unit)</th>
<th>Continuing Level 4 (Geometry Unit)</th>
<th>Continuing Level 5 (Probability Unit)</th>
<th>Continuing Level 6 (Geometry Unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online</td>
<td>Thursday 6:15pm – 7:45pm 6/25 - 8/6</td>
<td>Wednesday 6:00pm – 7:30pm 6/24 - 8/5</td>
<td>Monday 6:00pm – 7:30pm 6/22 - 8/3</td>
<td>Wednesday 7:30pm – 9:00pm 6/24 - 8/5</td>
<td>Monday 7:30pm – 9:00pm 6/22 - 8/3</td>
</tr>
</tbody>
</table>
Algebra – I (Ruchi Saxena)
A seven-week (13 Sessions) accelerated course that covers an overview of the main Algebra-I concepts. This course is intended for rising 7th, 8th, or 9th grade students who will be taking the Algebra-I course during the 2020-2021 academic year. Taught by a highly experienced math teacher. Classes meet twice a week.

$450

ONLINE: Tuesday 6:30pm – 8:30pm, Thursday 6:30pm – 8:30pm. June 20th – August 6th

Geometry (Ms.Sabrina Ussery)
A six-week (13 Sessions) accelerated high-school level course that covers an overview of the main Geometry concepts. This course is intended for students who will be taking an online Geometry course for credit in summer or the Geometry course at school during the 2020-2021 academic year (Rising 8th, 9th, or 10th grade students). Classes meet twice a week.

$450

ONLINE: Monday 6:30pm – 8:30pm, and Saturday 11:30am – 1:30pm. June 20th – August 3rd
*No classes will be held on July 4th due to the Independence Day holiday.

Algebra – II (Ms.Sabrina Ussery)
A six-week (13 Sessions) accelerated course that covers an overview of the main Algebra-II concepts. This course is recommended for rising 8th, 9th, or 10th grade students who will be taking the Algebra-II course during the 2020-2021 academic year for 8th and 10th Grade students. Classes meet twice a week.

$450

ONLINE: Thursday 6:30 pm – 8:30 pm, and Saturday 2:00pm – 4:00pm. June 20th – August 6th
*No classes will be held on July 4th due to the Independence Day holiday.

Pre-Calculus (Mr.Daniel Dudley)
A six-week (12 Sessions) accelerated course that covers an overview of the main Pre-calculus concepts. This course is intended for rising 10th, 11th, or 12th grade students who will be taking the Pre-calculus course during 2020-2021 academic year. Mr.Daniel Dudley is a TASIS Switzerland Teacher. He has several years of experience on teaching Mathematics in US and international schools in Europe.

$495

ONLINE: Wednesday 12pm – 2pm and Sunday 9am – 11am. June 21st – August 2nd
*No classes will be held on July 4th due to the Independence Day holiday.

Calculus AB (Mr. Daniel Dudley)
A six-week (12 Sessions) accelerated course that covers an overview of the main Calculus AB concepts. This course is recommended for rising 10th, 11th, or 12th grade students who will be taking the Calculus AB course during the 2020-2021 academic year. Mr.Daniel Dudley is a TASIS Switzerland Teacher. He has several years of experience on teaching Mathematics in US and international schools in Europe.

$495

ONLINE: Monday 12pm – 2pm and Sunday 11:30am – 1:30pm. June 21st – August 2nd
*No classes will be held on July 5th due to the Independence Day holiday.
Research Statistics-I (Mr. Daniel Dudley)

This course is intended to cover the basic concepts of Research Statistics-I, a TJ Freshman course. This course is intended for students who will be taking this course during Summer 2020 or Fall 2020. A solid beginning in the freshman year is very important for confidence building; however, any student rising 9th, 10th, or 11th grade is welcome to join. This is a fast-track course, which meets on 6 consecutive days. This course will be taught by Mr. Daniel Dudley with several years of experience on teaching Statistics in US and international schools in Europe.

$295

ONLINE: Monday through Friday from 12pm – 2pm & Saturday 20th from 12pm to 2pm. June 15th – June 20th.

AP Statistics (Mr. Daniel Dudley)

A six-week (12 Sessions) Intended for rising 10th, 11th, or 12th grade students planning to take AP Statistics in 2020-2021 Academic Year. Basic concepts associated with the course will be taught by Mr. Daniel Dudley with several years of experience on teaching AP Statistics in US and international schools in Europe. Having prior knowledge on the course material avoids any possible hiccups during academic year.

$550

ONLINE: Friday 12pm – 2pm & Sunday 2pm – 4pm. June 21st – August 2nd
*No classes will be held on July 3rd or 5th due to the Independence Day holiday. One make up class will be conducted; it’s date will be announced later.

SCIENCE COURSES

Contact by phone@ 703-798-6808 or 703-582-0436.
Contact by email: curielearning@gmail.com

High-School Biology (Ms. Samrudhi Acharya)

A six-week (12 Sessions) course that covers the basic concepts of a high-school (including TJ) Biology course. This course is highly recommended for rising 9th and 10th grade students who will be taking General Biology course during 2020-2021 academic-year. Classes meet twice a week. Ms. Samrudhi Acharya is a Fairfax County biology teacher who teaches both general and AP biology.

$495

ONLINE: Tuesday 6:30pm – 8:30pm, Saturday 9am-11am. June 20th – July 31st
*No classes will be held on July 4th due to the Independence Day holiday.

General High-School Chemistry (Ms. Komal Jain)

A six-week (12 Sessions) course that covers the basic concepts of a high-school Chemistry course. This course is highly recommended for rising 9th, 10th, or 11th grade students who will be taking General Chemistry course at TJ or at any other high-school in summer 2020 or during 2020-2021 academic-year. Classes meet twice a week. Ms. Komal Jain is a Fairfax County school teacher. Who teaches both General and AP Chemistry.

$495

ONLINE: Saturday 4pm - 6pm, Sunday 1pm - 3pm. June 13th - July 26th
*No classes will be held on July 4th or 5th due to the Independence Day holiday.
**General High-School Physics/AP Physics (Ms.Kavita Sharma)**

A six-week (12 Sessions) course that covers the basic concepts of a high-school Physics/AP Physics course. This course is highly recommended for rising 10th, 11th, or 12th grade students who will be taking Physics/AP Physics during 2020-2021 academic-year. The concepts covered in school for both Physics and AP Physics are same but at a different level. In the past, many students who completed Physics at school attended our course before taking AP Physics, to solidify the concepts. Classes meet twice a week.

Ms.Kavita Sharma is a Loudoun County school teacher.

$495

**ONLINE:** Thursday 6:30 pm – 8:30 pm, and Saturday 9am – 11am. June 20th - August 1st

*No classes will be held on July 4th due to the Independence Day holiday.*

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**Integrated AoS Freshman Math/Physics (Ms.Kavita Sharma)**

A six-week (12 Sessions) course that covers Integrated AoS Math/Physics. This class is intended for rising 9th grade students; however, any rising 9th, 10th or 11th grade student is welcome to join. Classes meet twice a week. Ms.Kavita Sharma is a Loudoun County school teacher.

$495

**ONLINE:** Tuesday 6:30 pm – 8:30 pm, and Sunday 9:30am – 11:30am. June 21st – August 2nd

*No classes will be held on July 4th due to the Independence Day holiday.*

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**COMPUTER COURSES**

**Contact by phone@ 703-798-6808 or 703-582-0436.**

**Contact by email: curielearning@gmail.com**

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**TJ Freshman/High School Level (Ms.Sunitha Patil)**

In this six-week (12 Sessions) course students will learn to program using JAVA, a widely used general purpose programming language. This course is designed to prepare students to excel in freshman Computer Science course at TJ and Computer Science course at other high schools for rising 9th, 10th, 11th or 12th grade students. Students will have hands-on experience with coding. Classes meet twice a week. Ms.Patil is a JAVA teacher in industry with more more than five years teaching experience.

$450

**ONLINE:** Friday 6:00pm – 8:00pm, and Sunday 9am – 11am. June 21st - August 7th

*No classes will be held on July 3rd or 5th due to the Independence Day holiday.*

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**Intro to Java/ACSL Programing (Ms.Sunitha Patil)**

**Rising 6th Grade and Up**

In this six-week (6 Sessions) course students will be exposed to basics of programing using JAVA, a widely used general purpose programming language. This course also serves to introduce the students to American Computer Science League (ACSL) programming part of the competition. This course is highly recommended for rising 6th, 7th, or 8th grade students and can be used as a supporting evidence example in preparing the Student Information Sheet (SIS) during TJ/AOS admission process. Students will have hands-on experience with coding. This course will be taught by a JAVA expert.

$250

**ONLINE:** Sunday 9am – 11am. June 21st – August 2nd.

*No classes will be held on July 5th due to the Independence Day holiday.*
STEM COURSES

Learning Physics Concepts with Simulations

Rising 7th & 8th Graders

Six weeks course. Important physics concepts (in the areas of classical physics, light, sound, electricity) will be taught and to strengthen the understanding of the concepts, simulations will be performed by the students. The course is taught by Dr. Anna Wyczalkowski a highly experienced physics professor at the George Mason University.

$395

Online: Thursday 6:30pm–8:30pm, and Saturday 1 pm–3 pm. June 20th - August 1st
*No classes will be held on July 4th due to the Independence Day holiday.

Robotics Camp - ONLINE

Rising 6th to 9th Graders

During this one week camp, students will use hands-on robotics kits along with our experienced robotics instructors to learn the intricacies of Arduinos and robotics. Our team of instructors will be walking students through the basics of assembling the robotics kit to programming it to follow a line, detect walls, and many other projects throughout the week. Students will learn basics of C++ or Arduino programming, and will gain experience with assembling and testing a robot kit.

Please order the robotics kit as soon as you register for the camp:

https://www.amazon.com/ELEGOO-Tracking-Ultrasonic-Intelligent-Educational/dp/B07KPZ8RSZ.

$225

Online: 5 days camp from 10 am to 3 pm. June 22nd – June 26th

3D CAD Camp - ONLINE

Rising 6th to 9th Graders

During this one week camp, students will use a web-based Computer-Aided Design software to learn the in’s and out’s of 3D design. Our team of experienced instructors will be sharing their knowledge of 3D design with students, showing not only how to model and create their own parts from scratch, but also how to connect, assemble, and animate entire assemblies. By the end of the camp, students will have worked on dozens of projects to build their skills, including gear assemblies, part modeling, and even assembling entire robots! Please contact xtremevoltage10515@gmail.com with any questions or concerns.

$225

Online: 5 days camp from 10 am to 3 pm. July 6th – July 10th
Python Programming – ONLINE

Rising 7th to 10th Graders

During this one week camp, students will use a web-based programming software to learn ground up all the fundamentals of computer programming in Python. Throughout the camp, students will be working on several projects, and attend lectures from experienced programming students. Our team will go over the basics of Python programming and delve into advanced techniques, while incorporating many activities and projects.

$225

**Online:** 5 days camp from 10 am to 3 pm. July 13th – July 17th

GT Testing Preparation (NNAT & CogAT)

(It will be taught by Ms. Deepa Rajagopal, a NNAT/CogAT expert and books author)

**Rising 1st, 2nd, & 3rd Grades (depending upon the school district)**

Two separate six week courses designed to prepare students for the present CogAT/NNAT Exams. These courses will be taught by the author of highly popular CogAT/NNAT books in the market.

$375 (The book is included in the price)

<table>
<thead>
<tr>
<th>FAIRFAX COUNTY (Herndon Center)</th>
<th>LOUDOUN COUNTY (South Riding Center)</th>
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<tbody>
<tr>
<td><strong>CogAT:</strong> 2nd Grade (in the 2020-2021 year)</td>
<td><strong>CogAT:</strong> 2nd Graders (in the 2020-2021 year)</td>
</tr>
<tr>
<td>Sunday 9am – 11am. August 30th – October 11th</td>
<td>Saturday 9am – 11am. August 29th – October 10th</td>
</tr>
<tr>
<td><strong>NNAT:</strong> 1st Grade (in the 2020-2021 year)</td>
<td><strong>NNAT:</strong> 3rd Grade (in the 2020-2021 year)</td>
</tr>
<tr>
<td>Sunday 11am – 1pm. August 30th – October 11th</td>
<td>Saturday 11am – 1pm. August 29th – October 10th</td>
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# ROBOTICS CAMP

Hosted By FTC team 10515. Xtreme Voltage

Learn the basics of robotics with a hands-on robotics camp in less than a week!

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<tbody>
<tr>
<td>A hands-on robotics camp where students will utilize an Arduino kit to learn the keys points and basics of robotics, as well as complete projects.</td>
<td>In the comfort of your own home! Attend daily, interactive, Zoom calls.</td>
<td>Monday, June 22 - Friday, June 26 from 10:00 AM - 3:00 PM</td>
<td>6th-9th grade students interested in engineering and how the things around them work.</td>
<td>$225 per student</td>
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</table>

For more information, contact us:

(703) 623 - 4650  xtremevoltage10515@gmail.com
## Day 1 (6/22)

**Topics Covered: Robot Building**
- 10:00 AM - 10:20 AM
  - Introduction Games
- 10:20 AM - 11:00 AM
  - Show presentation and teach them about arduino and answer questions
- 11:15 AM - 11:55 AM
  - Start robot assembly
- 12:05 PM - 12:45 PM
  - Continue Robot Assembly
- 12:45 PM - 1:30 PM
  - Lunch Break
- 1:30 PM - 2:10 PM
  - Finish Robot Assembly
- 2:20 PM - 3:00 PM
  - Give/review coding packet

## Day 2 (6/23)

**Topics Covered: Programming, Object Detection**
- 10:00 AM - 10:40 AM
  - Show coding Presentation
- 10:50 AM - 11:30 AM
  - Start C++ programming for object detection
- 11:40 AM - 12:20 PM
  - Continue programming for object detection
- 11:40 AM - 12:20 PM
  - Start building maze to program
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Start programming robots to complete maze
- 1:40 PM - 2:20 PM
  - Continue programming maze
- 2:30 PM - 3:00 PM
  - Complete maze programming and present

## Day 3 (6/24)

**Topics Covered: Programming, Line Tracking**
- 10:00 AM - 10:40 AM
  - Show programming presentation for line detection/tracing
- 10:50 AM - 11:30 AM
  - line detection demonstration
- 11:40 AM - 12:20 PM
  - Start working on line detection code
- 11:40 AM - 12:20 PM
Day 4 (6/25)

Topics Covered: Learning about the robots
- 10:00 AM - 10:40 AM
  - Review/go over parts of the robot
- 10:50 AM - 11:30 AM
  - Showing them presentation about what we do and how we use the electronics that were used for the robot
- 11:40 AM - 12:20 PM
  - Explaining what we do as a team for FTC
- 11:40 AM - 12:20 PM
  - Having a competition
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Program for competition
- 1:40 PM - 2:20 PM
  - Continue program for competition
- 2:30 PM - 3:00 PM
  - Complete programming competition

Day 5 (6/26)

Topics Covered: Presentation
- 10:00 AM - 10:40 AM
  - Show presentation on slideshow and how to present
- 10:50 AM - 11:30 AM
  - Start making presentation of camp
- 11:40 AM - 12:20 PM
  - Continue presentation
- 11:40 AM - 12:20 PM
  - Continue presentation
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Finish presentation
- 1:40 PM - 2:20 PM
  - Present to each other
- 2:30 PM - 3:00 PM
  - Complete group presentation
# Python Camp

Hosted by FTC team 10515. Xtreme Voltage

Learn how to code using one of the most in-demand computer languages!

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<tbody>
<tr>
<td>A 5 day camp where students will learn the basics of Python through lessons and projects.</td>
<td>In the comfort of your own home! Attend daily, interactive, Zoom calls...</td>
<td>Monday, July 13 - Friday July 17 from 10:00 AM - 3:00 PM</td>
<td>7th-10th grade students</td>
<td>$225 per student</td>
</tr>
</tbody>
</table>

For more information, contact us:

(703) 623 - 4660  xtremevoltaget10515@gmail.com
**Python Camp Itinerary**

Camps will run from 10:00 AM - 3:00 PM, with 10 minute breaks every 40 minutes.

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**Day 1 (7/13)**

**Topics Covered:**

- **10:00 AM - 10:20 AM**
  - Introduction Games

- **10:20 AM - 11:00 AM**
  - Setup IDE/guide students on creating a new program

- **11:15 AM - 11:55 AM**
  - Hello World, introduction to variables/operators

- **12:05 PM - 12:45 PM**
  - Continuation on variables/operators, concatenation/combing variables

- **12:45 PM - 1:30 PM**
  - Lunch Break

- **1:30 PM - 2:10 PM**
  - Indentation, comments, recognizing syntax vs runtime errors

- **2:20 PM - 3:00 PM**
  - For/While loops

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**Day 2 (7/14)**

**Topics Covered:**

- **10:00 AM - 10:40 AM**
  - Day 1 review

- **10:50 AM - 11:30 AM**
  - If and switch statements

- **11:40 AM - 12:20 PM**
  - Lists(loopping)

- **11:40 AM - 12:20 PM**
  - Lists(slicing)

- **12:20 PM - 12:50 PM**
  - Lunch Break

- **12:50 PM - 1:30 PM**
  - Lists(sorting)

- **1:40 PM - 2:20 PM**
  - Lists(sorting, cont.)

- **2:30 PM - 3:00 PM**
  - Activity with lists

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**Day 3 (7/15)**

**Topics Covered:**

- **10:00 AM - 10:40 AM**
  - Day 2 review

- **10:50 AM - 11:30 AM**
  - Functions

- **11:40 AM - 12:20 PM**
  - Functions, cont.

- **11:40 AM - 12:20 PM**
DAY 4 (7/16)

Topics Covered:

- 10:00 AM - 10:40 AM
  - Day 3 review
- 10:50 AM - 11:30 AM
  - Day 3 review cont.
- 11:40 AM - 12:20 PM
  - Inheritance, Parent/Child classes
- 11:40 AM - 12:20 PM
  - Inheritance, Parent/Child classes cont.
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Activity with classes/objects
- 1:40 PM - 2:20 PM
  - Activity with classes/objects cont.
- 2:30 PM - 3:00 PM
  - Activity with classes/objects cont.

DAY 5 (7/17)

Topics Covered:

- 10:00 AM - 10:40 AM
  - Day 4 review
- 10:50 AM - 11:30 AM
  - Day 4 review cont.
- 11:40 AM - 12:20 PM
  - Review of previous days
- 11:40 AM - 12:20 PM
  - Final Project introduction
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Final Project
- 1:40 PM - 2:20 PM
  - Final Project cont.
- 2:30 PM - 3:00 PM
  - Final Project cont.
# 3D CAD Camp

Hosted by FTC team 10515, Xtreme Voltage

Learn how to create real-life prototypes of designs with the help of your computer!

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<tr>
<td>A 5-day camp where students will learn the process of designing detailed items and its use through a 3D CAD application.</td>
<td>In the comfort of your own home! Attend daily, interactive, Zoom calls.</td>
<td>Monday, July 6 - Friday, July 10 from 10:00 AM - 3:00 PM</td>
<td>6th-9th grade students.</td>
<td>$225 per student</td>
</tr>
</tbody>
</table>

For more information, contact us:

(703) 623-4660  xtremevoltage10515@gmail.com
CAD Camp Itinerary

Camps will run from 10:00 AM - 3:00 PM with 10 minute breaks every 40 minutes

Day 1 (7/6) Intro to Onshape and 2D Sketching

Topics Covered:

> 10:00 AM - 10:20 AM
  ○ Introduction Games
> 10:20 AM - 11:00 AM
  ○ Inspection, make sure kids have software set up correctly and make sure all settings are correct
> 11:15 AM - 11:55 AM
  ○ Give presentation to introduce kids to CAD; answer questions
> 12:05 PM - 12:45 PM
  ○ Teach kids how to create basic shapes and other necessary skills, let kids explore Onshape
> 12:45 PM - 1:30 PM
  ○ Lunch Break
> 1:30 PM - 2:10 PM
  ○ Teach kids how sketching is used and make them sketch different perspectives of items
> 2:20 PM - 3:00 PM
  ○ Give kids time to CAD objects in packet

Day 2 (7/7) 3D Objects

Topics Covered:

> 10:00 AM - 10:40 AM
  ○ Introduce kids to 3-dimensional aspects of CAD; give more time to CAD objects from packet
> 10:50 AM - 11:30 AM
  ○ Give time to CAD 3D shapes from packet
> 11:40 AM - 12:20 PM
  ○ Give time to CAD 3D shapes from packet
> 12:20 PM - 12:50 PM
  ○ Lunch break
> 12:50 PM - 1:30 PM
  ○ Fun activities: CADing names, tricorn, solar system
> 1:40 PM - 2:20 PM
  ○ Competition: Apple logo
> 2:30 PM - 3:00 PM
  ○ Give time to CAD from packet

Day 3 (7/8) Advanced Tools

Topics Covered:

> 10:00 AM - 10:40 AM
  ○ Teach kids how to use chamfer and fillet tools
> 10:50 AM - 11:30 AM
  ○ Give kids time to practice from packet
**Day 4 (7/9) Assemblies**

*Topics Covered:*
- 10:00 AM - 10:40 AM
  - Teach kids about assemblies
- 10:50 AM - 11:30 AM
  - Continue teaching kids about assemblies
- 11:40 AM - 12:20 PM
  - Give kids time to practice assembling in packet
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Introduction to gears
- 1:40 PM - 2:20 PM
  - Gearing practice
- 2:30 PM - 3:00 PM
  - Project: Geared claw

**Day 5 (7/10)**

*Topics Covered:*
- 10:00 AM - 10:40 AM
  - Project: castor wheel
- 10:50 AM - 11:30 AM
  - Continue castor wheel
- 11:40 AM - 12:20 PM
  - Introduce kids to FTC
- 12:20 PM - 12:50 PM
  - Lunch Break
- 12:50 PM - 1:30 PM
  - Project: Basic robot chassis
- 1:40 PM - 2:20 PM
  - Continue project
- 2:30 PM - 3:00 PM
  - Review key concepts