SUMMER STEAMcation
by Next Generation School

A full day camp for students entering 1st through 5th grade in the fall of 2016

Apply ONLINE
March 7, 2016
nextgenerationschool.com

Questions? Call 217.356.6995
Contact: Ms. Krystal Moya
**Exploring the STEAM Themes**

**Week 1: STEAMology**
Camp Dates: May 31 - June 3

It’s STEAM time! Learn how to think like a scientist and conduct experiments to discover how things work. Each group will have a different challenge exploring various fields in science and engineering. Challenge yourself to build a trampoline, create bird feeder mobiles or explore the chemistry of color. Bring your creativity to life as you discover the range of mediums that can be used to share your ideas in Fine Arts from blow art paintings to self portrait sketches. In Maker’s Lab you will discover the world of bookbinding by designing, building and decorating your own books to store all of your great ideas throughout the summer.

**Week 2: Sustainable Farming**
Camp Dates: June 6 - June 10

Put on your coveralls and get your shovel ready to dig into the world of farming! We will explore what it means to be an organic farmer and conduct experiments just like the agricultural scientists at UIUC to help the farmer improve his crop! Discover what animals can be found at the farm and create your own art pieces to capture your favorite one. Head into Maker’s Lab to explore efficient energy sources to power your farm or perhaps build a structure to store the farm equipment.

**Week 3: Lights, Camera, Action!**
Camp Dates: June 13 - June 17

Have you ever wondered what it takes to make a mini film? We will start with behind the scenes preparation and move on to rolling out the red carpet and watch our finished masterpieces at the end of the week! You will get to work in the costumes department to design and build your own props and masks. Discover the world of special effects including lighting and using dry ice to enhance your creation. Take on the filming role by using green screens for your backdrop and end the week by acting out your masterpiece! We can’t wait to see your final STEAM film at our first STEAM Star Awards!

**Week 4: Tinkering with Toys**
Camp Dates: June 20 - June 24

The STEAM toy shop is looking for the next best toy and we know that you can invent it! Come discover the science behind our favorite toys - from Newton’s Laws to how gears work. Perhaps you would like to use Vex robotics to program a robot to dance the disco for your friends, or maybe you are more into motion and can engineer the next toy car? Or for our biologists in the crowd, you could choose to create a woodpecker that slides down a tree and pecs as he goes. The possibilities are endless! We will take apart toys to see how they work while learning how to build models and market the next invention all inspired by your great ideas!
Week 5: Oceanography  
Camp Dates: June 27-July 1

Get ready to dive deep under the ocean and discover what lies under those deep, blue waters. We will look at the mysterious creatures that call this place home - from the angler fish to the great blue whale. Pick your favorite sea life and use fabrics to create an animal pillow or perhaps design your own ocean in a bottle to take home! Discover the science of ocean tides and much more!

Week 6: Watch out! STEAM Pirates!  
Camp Dates: July 11-15

Are you ready to become a pirate mate? Engineer a chest to keep your treasure dry at the bottom of the ocean. Become a cartographer and create a map to hide your gold. Build a boat that you can use to get across the great seas - we will test them in the swimming pool. Learn how to use modern technology to go on a treasure hunt including finding a geocache! End the week by designing and minting your pirate coins so that everyone will know that they are yours.

Week 7: STEAM Tunes  
Camp Dates: July 18-22

Calling all musicians and engineers! We are ready to make music at STEAM Studio. Build your own African drums or rain sticks. Perhaps you are more into the strings and would like to build a cardboard guitar in the Maker’s Lab. Discover how sound waves move from the radio station to your house, and explore how your ear hears those favorite tunes! Create your own artwork from the vibrations of some of our favorite tunes. End the week by creating a band with your friends and sharing your music at the STEAMcation outdoor summer concert!

Week 8: STEAMcation Castles and Courts  
Camp Dates: July 25-28

Take a step back in time to the Medieval Period when kings and queens ruled their land. Engineer a castle that can last the test of time. Explore the natural healing powers of herbs or concoct a potion to put your enemy to sleep. Create a catapult to protect your land and come up with a flag and armor design so that surrounding knights know who you are! Put your engineering skills to the test while building a drawbridge to protect your castle.

Week 9: STEAMventions  
Camp Dates: August 1-5

Come join us as we explore some of the most important inventions of the century from steam engine trains to nano-technology. Join us as we take apart computers to make works of art. Create your own Rube Goldberg devices from recyclables. Discover how simple machines can work together to create complex machines that make our lives easier every day. We can’t wait to see what you invent!
Summer STEAMcation consists of week-long enrichment camps, where students will have the opportunity to explore themes in Science, Technology, Engineering, Art, and Math. Each week students will immerse themselves in units of study that foster creativity and discovery-based learning. In the mornings, campers will rotate through hands-on and inquiry-based programs in our STEM lab, Maker’s Studio and Art Studio. The afternoon will include swimming trips, outdoor adventures, or going on field trips related to the theme being explored.

### Kick Off Week

*Closed 5/30 in observance of Memorial Day*

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<thead>
<tr>
<th>Week</th>
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<th>Theme</th>
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<td>5/31-6/3</td>
<td>STEAMology</td>
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### Camp Session 1

*Receive a $100 discount when you register for the entire session!*

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<td>3</td>
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<td>6/27-7/1</td>
<td>Oceanography</td>
<td>$250</td>
<td>MAY 23</td>
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### Closed for 7/4-7/8

### Camp Session 2

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<td>STEAMcation Castles &amp; Courts</td>
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<td>8/1-8/5</td>
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<td>$250</td>
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### GET THE DETAILS

- Camp activities from 8:30-4:30 PM
- Precare from 7:30-8:30 AM included
- Aftercare from 4:30-5:30 PM included
- Two daily snacks
- Weekly swimming at the NGS Pool & Crystal Lake Aquatic Center
- Creative art studio explorations
- STEAM challenges
- Science experiments
- Maker’s Lab
- Team building activities
- Recess time to play with friends

LOCATION: 2521 & 2533 GALEN DRIVE, CHAMPAIGN, IL 61821

REGISTRATION BEGINS MARCH 7! Register online at nextgenerationschool.com