



Winter/Spring 2023

STEAM Club

Age: 9-14 years old (Must be 9 by January 1, 2023)

Tuesdays, 6:00 - 7:30 pm **Fee:** \$150 a month

Dates: February 7, 14, 21, and 28

March 7, 21, and 28 (Does not meet during Spring Break. **Fee:** \$125)

April 4, 11, 18, and 25

May 2, 9, 16, and 23

Explore STEAM-related hands-on projects! Students will learn about stop motion animation, 3D printing, woodworking, chemistry using common household ingredients, LEGO projects, and Tinkercad to make 3D-printed parts to take home. Students will be introduced to virtual reality with activities like NASCAR driving, chess, Among Us, and puzzles.

What's Cooking

Age: 9 - 14 years old (Must be 9 by January 1, 2023)

Thursdays, 5:30 - 7:00 pm **Fee:** \$175

Dates: February 2, 9, 16, and 23

What do cooking and STEM have in common? More than you might think. The kitchen is a great place to explore all sorts of STEAM projects, such as measurement, patterns, chemistry, properties of matter, cause and effect, and much more. Please note egg, milk and peanut butter will be used.

Robot Dance

Age: 6 -9 years old (Must be 6 by January 1, 2023)

Wednesdays, 5:30 - 7:00 pm **Fee:** \$175

Dates: February 1, 8, 15, and 22

Campers gain great experience with computer science using Scratch to code, create, and share projects. Scratch uses a custom programming language that is easy to understand. By moving and combining blocks of code, campers develop their own super cool animation projects.

Stop Motion

Age: 6 -14 years old (Must be 6 by January 1, 2023)

Wednesdays, 5:30 - 7:00 pm **Fee:** \$175

Dates: March 1, 8, 22, and 29 (No class 3/15 for Spring Break)

Students will learn about animation through Studio Motion while creating their own animated short films. Students will develop animation skills traditionally before learning how to transfer their concepts, drawings, storyboards, and characters to Studio Motion.

To register, call Julie at (563) 344-4170,
email her at jklein@bettendorf.org,
or register online at
familymuseum.org/registration.

STEAMTRICITY

Age: 9 - 14 years old (Must be 9 by January 1, 2023)

Thursdays, 5:30 - 7:00 pm **Fee:** \$175

Dates: March 2, 9, 23, and 30 (No class 3/16 for Spring Break)

Students will learn basic properties of electricity and electronics. While exploring its presence in the campers' everyday devices, they will better understand its application in creating two lamps for their personal use. From start to finish this camp will brighten up any student's mind and room.

VR STEAM

Age: 9 -14 years old (Must be 9 by January 1, 2023)

Wednesdays, 5:30-7:00 pm **Fee:** \$175 for each session

Dates: Session 1: April 5, 12, 19, and 26

Session 2: May 3, 10, 17, and 24

Students to be fully immersed into ancient sites and historical landmarks where they can see, describe, and experience in detail as if they were there. The immersive experience encourages students to hypothesize and predict how people lived better than any other learning method. Students will also be introduced to virtual reality, taking you through real-world job simulators such as chefs, mechanics, and chemists to name a few.

Laser Fun

Age: 9-14 years old (Must be 9 by January 1, 2023)

Tuesdays, 6:00 - 7:30 pm, **Fee:** \$175 a session

Session 1: April 6, 13, 20, and 27

Make a custom shoebox out of acrylic or wood. Students will build an animal to make it 3D from plywood. Each student will have access to their own computer to go through tutorials on using the software. Each week will be a task that will further their knowledge of laser cutters. The biggest challenge students will have is thinking about what parts will fall out.

Session 2: May 4, 11, 18, and 25

Each student will make a custom hat and make a custom patch out of leather. They will make a custom board game and build a vehicle.

Among Us

Age: 9-14 years old (Must be 9 by January 1, 2023)

Mondays, 6:00 - 7:30 pm, **Fee:** \$175

Dates: April 3, 10, 17, and 24

Learn to build your own custom Among us character on the 3D printer. Explore among us virtual reality with classmates. Students will also work with programming robots.

Chess Club

Age: 9 -14 years old (Must be 9 by September 1, 2022)

First Saturday of the month Oct.-May, 10:00-11:30 am

Fee: \$25 a month

Practice chess puzzles from grandmasters and end game strategy. Challenge participants in class using oculus quest VR googles. Play against volunteers across the world that will challenge you every game! Materials provided.

Homeschool STEAM Club

Age: 6-14 (age 6 by January 1, 2023)

Fee: \$30 per session

10:00 - 11:30 am

Dates: First and Last Friday of each month, *each session is separate*:

Jan 6, Jan 27, Feb 3, Feb 24, Mar 3, Mar 31, Apr 7, Apr 28, May 5, and May 26
With hands-on activities for students, the Homeschool STEAM Club is a unique opportunity for homeschoolers to enhance their curriculum through STEAM programming. Homeschool STEAM Club also allows homeschoolers to share ideas and expand their network of like-minded learners. From woodworking projects, virtual reality, stop motion animation, and more!

