

MAD SCIENCE OF MAINE



AFTERSCHOOL PROGRAMS

BRIXOLOGY

Mad Science is sponsored by Bridgton Recreation

The Mad Science BRIXOLOGY Program sets the foundation for our next generation of makers! This program is unlike any Bricks program your kid has ever done! Kids learn about different types of engineering and then team up to construct a different engineering-themed project using LEGO® bricks. They learn about aerospace engineering while assembling a space station. They explore mechanical engineering as they build boats and vehicles. That's not all, from carnival rides to drawing machines, mechanical animals to truss bridges, your future engineer will build upon their creativity to solve real-world design challenges, while developing their problem-solving and team-building skills. Let the tinkering begin!

Location: Stevens Brook Elementary School

Day: Monday

Dates: 3/27-5/8/17 (6 weeks)

***No program on 4/17/17**

Time: 3:15-4:15 pm

Room: Art Room

Grades: K-5th

Cost: \$60.00

Minimum/Maximum: 12/20

Register in person at 3 Chase Street, Suite 1 in Bridgton or call 207-647-8786 today!

Mad Science of Maine

105 Main Street, South Portland, ME 04106

Ph: 207-878-2222 Email: taryn@madsciencemaine.com Website: www.maine.madscience.org

MAINE.MADSCIENCE.ORG



Class Descriptions

Aerospace: Launch your imagination to new heights as you explore aerospace engineering! Discover the secrets of working in space – efficiency and compact design. Create a trussed space station module, then connect it with others to create a massive modular spacecraft. Take home an Astro Lander to repeatedly launch!

Carnivals: Feel the thrill as you build a spinning swing ride! Learn about the forces and mechanical engineering concepts behind some of your favorite amusement park rides. Then improve and test the design to create an even wilder ride. Take home a Viking Ship Ride to build.

Creatures: Discover nature's engineering secrets as we investigate biomimicry! We can learn a lot about efficient design from observing plants and animals. Build a walking insect machine then test different ways to help it climb up the steepest branch. Build and take home a Peacock Puzzle.

Towers: Reach for the sky! Find out how structural engineers use ideas from physics to solve problems. Work together to build a structurally sound tower with a working elevator, then test and improve your design for strength and stability. Take home a Sky Beam building set.

Bridges: How can you build the strongest bridge? Work together with your fellow civil engineers to build and test different bridge designs. Then use what you've learned to create the strongest bridge possible. Take home a Truss Bridge building set.

Vehicles: Get in gear as an automotive engineer! Build a motorized vehicle and learn how to optimize it. Use wheels, axles and gears to reduce friction and make it work better. Then shift things into a higher gear to get a hands-on understanding of transmissions and gear ratios. Take home a motorized Hovercraft XS to build.

Our Mission

Mad Science is on a mission to spark the imagination and curiosity of children by providing them with fun, interactive and educational programs that instill a clear understanding about science and how it affects their world.

Mad Science Program Policies

- ★ **NO PAYMENTS OR FORMS CAN BE SUBMITTED TO THE SCHOOL. MUST BE PROCESSED BY BRIDGTON RECREATION.**
- ★ On each class date you must send a note to the school secretary giving your child permission to go to Mad Science.
- ★ Please pick your child up promptly at the classroom door upon dismissal.
- ★ LATE PICKUP will be charged at the rate of \$1.00 per minute and must be paid in cash directly to the Mad Scientist prior to the start of the next class in order for your child to continue.
- ★ A minimum of 10 children per class must be met in order for the class to run.
- ★ All supplies and materials are included in the class fee.
- ★ Mad Science has a zero-tolerance policy regarding violence of any kind.
- ★ Bridgton Recreation will contact you prior to the start of the program to confirm your child's registration.

Register with Bridgton Rec: Call 647-8786 today or register in person at 3 Chase St., Suit 1, Bridgton

Registration Deadline: 3/20/17

School: Stevens Brook Elementary School Program Name & Length: Brixology, 6 weeks

Child's Name: _____ Date of Birth: ___ / ___ / ___ Grade/Teacher: _____

Parents Name: _____ Email: _____

Home Phone: (____) _____ - _____ Work Phone: (____) _____ - _____ Cell Phone: (____) _____ - _____

Address, City, & Zip: _____

Emergency Contacts- Name and Phone(s): Name 1: _____ Phone 1: _____ Phone 2: _____

My child will be picked up after class by: _____

My child will attend after-school day care at the school My child will be traveling home by his/her own means

Health Concerns or Special Needs: _____

I hereby give my child permission to remain after school for the Mad Science class.

Parent's Signature: _____ Date: ___ / ___ / _____

PAYMENT OPTIONS Return Checks & Forms to: Mad Science of Maine, 105 Main Street, South Portland, ME 04016

Program Cost: \$60 Check Make checks payable to: Mad Science of Maine

Credit Card Visa Master Card #: _____ Expiration: ___ / ___ Security Code: ___

Name as it Appears on the Card: _____

Signature: _____