

Launch, shoot, fly and learn with our Engaging, Hands-On STEM Camps! Register [Here](#).

## Full-Day and Half-Day Unique STEM Camps for boys and girls ages 6-16 Tuesday, November 6th, 2018

- ▶ Most Camps are half-day and two half-days can be combined for a full day with a supervised lunch.
- ▶ Half-day sessions from \$49.50 - \$59.50. Full-day sessions \$95.00 - \$119.00.
- ▶ We will have snacks for purchase, or you may send your child with his/her own.
- ▶ Please send a sack lunch if they are here for the whole day.
- ▶ Small class sizes and personalized instruction.
- ▶ Full-day camps: 9:00 am - 5:00 pm • Half-day mornings: 9:00 am - 12:30 pm • Half-day afternoons: 1:30 - 5:00 pm.
- ▶ Flexible drop off and pick up 30 minutes before and after class at no charge. Earlier or later times by request for \$5 per half hour, per child, per day.

### Tuesday, November 6th, 2018 Morning:

Don't Try This at Home Grades 5+, 11/6 9am-12:30pm  
OzoCoding Grades 1-3, 11/6 9am-12:30pm

### Tuesday, November 6th, 2018 Afternoon:

Camp Chemistry I Grades 1-3, 11/6 1:30pm-5pm  
Don't Try This at Home Grades 5+, 11/6 1:30-5pm

### Tuesday, November 6th, 2018 All day:

Lego Robotics Grades 3+, Tues, 11/6 9am - 5pm  
Rube Goldberg Machines Grades 3+, Fri, 11/6 9am-5pm

See below for class descriptions, or go to our website for full class descriptions and to register at [NewtonsAttic.org](http://NewtonsAttic.org).

#### Camp Chemistry I (Grades 1st-3rd)

Formulated for the youngest of Newton's Attic participants, Chemistry I offers all the fun of our older kids' chemistry camp tailored to 1st through 3rd graders. Bubbling potions, flash paper experiments, glow in the dark liquids and other mystifying phenomena will be the reaction products in this fun and stimulating excursion into the world of kitchen chemistry. So kids, prepare to get out the lab equipment and be ready to avoid those fumes (just kidding) because Chemistry I is going to be just the right mix of fun and learning.

#### Don't Try This at Home (Grades 5+)

The name says it all. It's the one phrase that strikes terror in the hearts of moms everywhere. It's also the one phrase that almost guarantees that kids will try to do something unwise in the basement or garage. But fear not, the purpose of this camp is to help youngsters vent the natural desire to do 'exciting' things, and we'll do them here at Newton's Attic - all under close adult supervision - saving you all the headaches.

Most of the activities will be science related stunts or things presented on Youtube that would otherwise very difficult or costly to do at home. Running through a kiddie pool filled with ooblek or igniting balloons filled with hydrogen gas (remotely from a safe distance) are a couple of examples of what we'll get into in this week of guilty pleasures. So grab your safety glasses, earplugs, heavy gloves (all provided by Newton's Attic) and let's create some excitement!

\* This class can be taken both morning and afternoon as the both sessions will be different.

#### Lego Robotics (Grades 3+)

This multi-level course is for beginners with no Lego robotics experience as well as students with some programming experience. The small class size (no more than twelve students) allows for individualized instructional pace. Students will be taught to build and program a robot and will learn how to use the NXT's motors and sensors in a small project that can be completed in a single day.  
\* This class is oriented for grades 3-5. However, older students are welcome to register as long as they are aware they may be with younger students.

#### OzoCoding (Grades 1st-3rd)

Games, mazes, robots ... OH MY! OzoCoding 1 will introduce students to the concepts of coding at a young age. Coding will help students make sense of problems, reason abstractly and quantitatively, and use logic reasoning skills to complete tasks. Students will learn how to code through Hour of Code and Ozoblockly. Although programming is done on the computer, this class has incorporated engaging physical activities and games to teach about programming code. The students will also work collaboratively to program their robots to complete several mazes. GAMES, MAZES, and ROBOTS...OH MY!

**Be on the lookout for our  
Winter Break Camps!**

**Did you know we do  
Birthday Parties?**

#### Rube Goldberg Machines (Grades 3+)

We've all seen them, but not everyone knows them by name. Rube Goldberg machines are contraptions made of household items, junk and just about anything that can be connected together in a convoluted arrangement that can be set off to produce a chain reaction of motion that typically ends in some sort of grand finale. In this introductory class, young students learn how to engineer table top sized Rube Gold-bergs from all sorts of items found in the extensive collection of vintage parts at Newton's Attic. So crank up your creativity, imagination, sense of humor, and get ready to learn about tool use, basic engineering and outside the box thinking in this entertaining and educational experience.

\* This class is oriented for grades 3-5. However, older students are welcome to register as long as they are aware they may be with younger students.

