



BOYS & GIRLS CLUBS
OF MERCER COUNTY

STEM CLUB

STEM CLUB activities are guided by *Mad Science*, a leading science enrichment provider. They deliver unique, hands-on science experiences for teens in high school. The STEM CLUB will broaden scientific knowledge and thinking in a stimulating and entertaining way. The programs

- meet national, state and provincial science curriculum standards
- incorporate hands-on and inquiry-based methods
- are delivered by trained, qualified and dynamic instructors
- use specially-designed equipment and original materials

Last Thursday of each month: 4:00 – 5:00pm, Spruce Street

Fees: Members- Free, First Time Guest - \$10

Topic	Date
Call of the Wild	2/28/2019
Super Sticky Stuff	3/28/2019
Chem in a Flash	4/11/2019
Spin, Pop, Boom!	5/30/2019
Space Travel	9/26/2019
Halloween Show	10/31/2019
Planets and Moons	11/21/2019
Living in Space	12/19/2019



Wacky Science: This special event features several different aspects of science. The audience will learn what a polymer is and will get to watch a brave volunteer make a giant batch of Slime with their bare hands! They will also be amazed as the Mad Scientist uses science to melt the 'Wicked Witch of the West' right before their eyes. Next, the children will learn about static electricity from demonstrations with a Van der Graaf generator. One of the victims...er...children will even get to touch the Van der Graaf for a 'hair raising' experience. We round off the event with our exciting Dry Ice demonstrations. Plus Slime Making for all!

Super Sticky Stuff: It sticks to the walls, and pushes the power of tape to the limits in this adhesive hour on things that cling! Build a bond with glue and get attached to Professor Beakerdude!
Chem in a Flash: Hop on board the chemistry express for a high-speed science experience! Perform instantaneous experiments in this fast-paced class on split-second reactions that go like mad! Pick up an Action Flask and have a blast!

Spin, Pop, Boom! In this presentation, the Mad Scientist will use simple but exciting science experiments and demonstrations to involve your group in the discovery process of science. Included in the event will be such experiments as the "Famous, Flaming Didgeridoo" and the "Fantastic Flying

Foam Factory: There will also be some audience participation. Spectacular experiments spark the children's curiosity and highlight the very best of Mad Science. Plus Bouncy Ball Making
Space Travel: In this class, students will learn about the propulsion systems employed for space travel. Children will participate in inquiry-based discussions and multiple hands-on experiments designed to introduce children to the concepts of thrust, propulsion, action/reaction, aerodynamics, rocket construction, the stages of rocket flight, and more!

Halloween Show: Our presentation will have your audience gasping and laughing at the Mad Scientist's peculiar and chilling science experiments. Through a mixture of science and magic the children will see a paper spider turn into a 'real-live' spider. Hear the tales of Count Eggbert and Countess Eggberta as they battle the wicked witch. Watch as the wicked witch is melted right before your eyes! The audience will find out how the seemingly sane Mr. Bernoulli helped the Mad Scientist float an eyeball in the air. Then, as a grand finale, the Mad Scientist will introduce the audience to the eerie world of Dry Ice, making bubbling potions and lots of fearsome fog. All will have an evening of gruesome goodness and fun! Plus Ghost Copter Making!

Planets and Moons: In Planets and Moons, students use models and scaling in order to understand the relative size and distance of objects in our Solar System. Students experiment with eclipses and learn why denser materials make up a planet's core while lighter materials form its surface. Students are challenged to build puzzle cubes to explore the nature of the planetary bodies in our Solar System.

Living in Space: This class puts students in the shoes of an astronaut. Children will explore the various demands and challenges facing astronauts, and the scientists who send them into space. Students then investigate astronaut training, mobility, and life support, and experience astronaut life for themselves as they participate in a space station building mission. Comparing their own schedules with those of astronauts, students will see how demanding a role it is!