

Mad Science®

Is coming to Cologne Academy for
incoming Kindergarteners - 6th graders

Mad Science is the world's leading science enrichment provider. Mad Science deliver unique, hands-on science experiences for children that are as entertaining as they are educational. Mad Science is proud to introduce millions of children to a world of discovery while sparking their imagination. Mad Science encourages scientific literacy in children in an age when science is as vital as reading, writing and arithmetic.

Mad Science Session 1 June 13th- June 16th

Mad Science Secret Agent (3rd -6th grades) 9 am-12 pm \$85

Mad Science Junior Scientist (k-2nd grades) 1 pm - 4 pm \$85

Mad Science Session 2 July 25th- July 28th

Mad Science Robots and Rockets for Girls (girls only) (3rd -6th grades) 9 am-12 pm \$110

Mad Science Kaleidoscope (k-2nd grades) 1 pm - 4 pm \$85

***Secret Agent Description** This exciting Mad Science camp offers a fun-filled opportunity to sharpen your investigative skills. Use spy technology to listen in on secret conversations. Send and retrieve top secret messages. Learn about DNA. Take an up-close look at the evidence and learn how to analyze it. Whether you are an undercover agent or a detective, you'll enjoy the Secret Agent camp. Every day has a different theme:

Spy Technology

James Bonds gadgets were not all science fiction. Learn all about some cool science behind the real secret agents. Find out how to listen in on secret conversations using spy technology. Learn how a pinhole camera works and much more. Take home your own Spyglasses.

Codes and Dead Drops

Learn how all sorts of secret codes work and use them to send your top secret information safely. Learn the secret when you discover the science behind invisible inks. Learn the history behind the famous Morse code. Experiment passing your messages using a spy technique called a dead drop. Take home your own Secret Code Kit.

Crime Scene

As a junior sleuth, hone your observation and problem solving skills when you put together the pieces of a mock crime scene and solve the case. Think like a detective and use the tools of detectives to discover the true facts and interpret what the facts really mean.

Break-ins!

Create your own security system around a treasure. Test the other groups' security systems. Try to beat the clock as you open some locks. Be careful as you try to complete a task without tripping the WhisperMeter. Make and take home your own mini Secret Safe.

*** Junior Scientist Description** Start your science career off right with fun hands-on activities. Each day is a different theme. Watch a volcano explode, change your voice, make an anatomy apron and mix your own batch of slime. Continue your explorations with lights, start a mineral collection and look at decomposers (worms).

Body Basics

Study the human body and your senses. Change your voice with our Sound Machine and make your own music with our Boomwackers. Experience hot and cold in some new fun ways. Take home an anatomy apron and a hangar banger.

Mad Mixtures

Mix up some fun in this class. Watch a volcano explode and use the information you learned to make your own soda pop. Use pipettes to make a rainbow of colors. Learn the principles of polymers while making your own slime.

Light and Color Lab

Look at color and light and see how your mind can be tricked into looking at things in a whole new way. Take home diffraction glasses and an ultraviolet keychain.

This and That

Test your measurement skills on the Treasure Trail. Take part in a mineral hunt and use the minerals you find to start your own mineral collection. Learn about decomposers and discover how important they are to our world. Take home a mini composter (worm).

*** Robots and Rockets for Girls** Girls get ready for an awesome science camp just for you! Learn about famous women scientists and celebrate some who have shown courage, innovation and determination. Create a volcanic eruption, make a balloon rocket, and experiment with dry ice. During the week you will examine the fundamentals of magnetism, have fun with chemistry and electricity. If you are a Brownie or Jr. Girl Scout, you will do activities that can qualify you for badges this week. Every day has a different theme:

Science Wonders and Science Sleuth

Examine the fundamentals of chemistry, magnetism and electricity. Build a crystal garden, make a magnetic chain. Experiment with dry ice, made soda-pop. Be a science detective by uncovering clues. You will see firsthand how science affects the world around us.

Women in Science

Features influential women who devoted their lives to the enrichment of others and the advancement of science. Make take home projects related to the work these amazing women accomplished.

Building Art and Movers

Examine strong structures, build cubes, and pyramid shapes; make a bridge model. Learn the basics of flight and build a kite and glider while experimenting with aerodynamics and air pressure.

Space Explorers and Aerospace

Discuss constellations and discover some secrets of the stars. Experiment with a balloon rocket, test fly different paper airplanes, and watch a model rocket launch. Take home the kite you build.

Geology and Water Wonders

Create a volcanic eruption and examine rocks formed from volcanic magma. Cast your own dinosaur fossil. Learn about water pollution and our ecosystem as you simulate an oil spill and then its cleanup.

*** Science Kaleidoscope** Be a science explorer on a journey through the amazing world of birds and beasts. The adventure continues through the chemistry lab and into other fascinating areas of science and fun. Build a crazy kaleidoscope and learn about cameras, lenses, and film. Build arches, bridges, a geodesic dome, and a catapult. Every day has a different theme:

Jr. Engineers

Check out shapes and why they are so strong! Investigate arches, and geodesic domes. Discover why an egg's shape is so strong and how you can find this shape in buildings. Test loads and build some bridges when you put on an engineer's hat and learn about structures. Take home a triangle puzzle and a wooden cube puzzle you built yourself.

Crazy Chemistry I

Become a Mad Science chemist as you learn all about the chemistry things that you encounter everyday in your house and school. Experiment with chemical reactions and test different liquids. Make your own chromatography T-Shirt to take home. Enjoy the exothermic ice cream we make in class.

Crazy Chemistry II

Discover how chemical reactions are everywhere and experiment with some chemical and some physical reactions. Mix, mush and brew together different chemicals to create things that you can use. Make sidewalk chalk, tootsie rolls, bath fizzers and some crystals.

The Birds & The Beasts

Where do owls live and what do they eat? What are the different ways birds eat their food? These questions and more will be answered with a walk on the wild side. Make a bird house and take home a bird seed mix for the birds in your own backyard.