



# Mad Science of Greater Salt Lake After School Programs

## World of Science

**Bugs!** - Students will explore the world's most abundant animal! Insect defenses and their role in our ecosystems will be explored in fun, hands-on activities that introduce children to these fascinating creatures! Children will use their knowledge of insects to make their very own Bug-A-Vision.

**Detective Science** - Watch as the classroom is transformed into a crime lab for this exciting exploration of the fundamentals of forensics. Children will even take home their very own Child Identification Kit. It's so much fun, it's criminal!

**Earthworks** - We'll investigate the powerful processes that shape the planet and form remarkable rocks, magnificent minerals, and glittering gems! Children will take home sedimentary stackers that they made themselves.

**Kitchen Chemistry** - Cooking is all about chemistry! Students will be introduced to the laboratory that we call a kitchen for a look at some novel and practical applications of science! Dinnertime will never be the same.

**Mad Science Machines** - Children will have so much fun problem-solving, designing and testing just like real engineers, they'll forget that they're learning! Children will take home a cool Mad Science Machine they built themselves!

**Movie Effects** - Grab your popcorn but don't sit back! We're going to learn first-hand how advances in science and technology are behind our favorite special effects! Children will take home an animator booklet and cool anaglyph glasses at the end of this fun-filled program. 3, 2, 1... Science in Action!

**Science of Toys** - Children will discover the science behind some of their favorite toys in this fun-packed program! Children aren't the only ones with the energy to play, their toys are packed with it, too! This explains yo-yo tricks, the amazing "String Thing," and much more! Further Physics fun awaits them at home with their new yo-yo!

**Walloping Weather** - Discover how hurricanes, tornadoes, and thunderstorms develop, and how powerful they can be! Our junior meteorologists will be making more reliable forecasts than the local news.



For more information Mad Science call 801.292.8646



# After School Programs

## pHunky pPhysics

**Che-mystery** - Discover the mystery in chemistry! Explore one of the most exciting and fundamental sciences as you watch water turn into juice and liquids turn into solids. Explore physical and chemical reactions with the Dynamic Dish.

**Current Events** - Take a tour on the electron freeway! Investigate conductors, insulators, and other elements in the world of circuit electricity. Get turned on to science and technology with the Circuit Maze.

**Fun-damental Forces** - What do gravity, inertia, and centripetal force have in common? They are all part of the fun in this introduction to physics. Feel the pull of precession with the bike wheel gyroscope, and strike the perfect balance with the Gravity Game.

**Science of Magic** - Learn the science behind illusions, read minds, and perform a Houdini-style escape! Amaze and amuse friends and family with the Curious Cube. It's not magic—it's science!

**Fantastic Fliers** - Fly through flight and aerodynamics basics! Discover the four forces that affect flight. Make and test various plane designs to see these forces in action! Build the Sky Hawk foam plane and fling it forward!

**Super Structures** - Act like junior architects and engineers! Test out shapes for strength. See if a paper column can withstand the Column Collapser! Construct a structure from scratch with the Bridge Basics kit.

**Under Pressure** - Join Bernoulli as we take an exciting look at the science behind air pressure. Create a vortex with an Airzooka, and make pucks and balls levitate with air pressure! Launch foam rockets with the Air Blaster.

**Wacky Water** - Simulate the effects of an ocean oil spill, and develop creative techniques to clean it up! Create your own Rescue Diver while learning about water, waves, and the environment.

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## Science Mania

**Harnessing Heat** – Take-on temperature! Build a thermometer and heat things up with friction. Feel how hot and cold can change at a touch. Apply your red-hot knowledge to your Heat Sheet.

**Lights...Color... Action!** – Catch some cool colors and make a rainbow out of white light. Split your name with ink and reveal numbers with color filters. Color the world with the Technicolor Blender.

**Magnetic Magic** – Explore the power of magnets. Create electromagnets and control a compass needle. See a magnetic accelerator in action. Grab a Magnet Lab for some at-home research.

**Mission: Nutrition** – Step into some healthy habits. Put together a food pie and lay out a perfectly proportioned meal. Burn calories and shake up an emulsion. Clip on your Step-O-Meter and walk on!

**Optical Illusions** – Work against your eyes. Trick your brain with lines and coils. Discover how mirrors and their reflections can play tricks on what you see. Make a Periscope to see above and beyond.

**Sonic Sounds** – Uncover the source of sound! Tap into sound waves and fill your ears with vibrations. Create sound effects and change the pitch of your voice. Use your Sonic Horn to make noise.

**Tantalizing Taste** – Use your sense of taste. Magnify your taste buds and unplug your nose. Find your favorite flavor and try a carbonated taste test. Sort out the scents with the Scratch 'n Match Take-Home.

**Watts-Up** – Charge up on static electricity. Make indoor lightning and conduct hair-raising experiments with an electro-static generator. Use your Static Stick on electrons at home!



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## NASA—Academy of Future Space Explorers

**Planets and Moons** - Explore the farthest reaches of our solar system and create a lunar eclipse in this "mad" planetary tour! Learn how the planets stack up. Build and take home Kepler's Cube™, a fun and educational 3-D solar system puzzle!

**Atmosphere and Beyond** - We're on a mission to explore the atmosphere on Earth, and beyond! Travel to the end of the rainbow and make a sunset! Mix up various planetary atmospheres, one molecule at a time! Discover how stars would look in space and see what makes stars twinkle using your very own Shimmering Stars™!

**Space Phenomena** - Probe the mysteries of meteors and bounce around satellite light in this phenomenal program on space events! See comets up close as one is formed before your eyes, and take home your very own Catch-a-Comet™!

**Sun and Stars** - This stellar program is your ticket to the stars! Watch star dust burn, and journey through a soapy galaxy as you investigate the life cycle of stars! Use your Bead Dipper™ to create a 3-dimensional glow-in-the-dark constellation!

**Rocket Science** - This is your chance to be a rocket scientist! Investigate the four forces of flight with the help of a Unique Flying Object! Explore the science involved in rocket construction as you build your own Skyblazer II Rocket™ that you can take home!

**Space Travel** - Learn what it takes to be a true globetrotter! Race a balloon rocket and design your own car engine as you learn about thrust. See the principles of propulsion at work in a real rocket launch, and build your very own Shuttle Copter™ to fly to the skies!

**Space Technology** - Discover technology designed for outer space! Steer a laser beam through a laser maze, find hidden mountains using the principles of radar technology and discover everyday objects originally designed for use in space! Take home a Lightning Launcher™ that will light up the sky!

**Living in Space** - Live the life of an astronaut as you suit up for space flight! Find out how much you would weigh if you lived on Pluto and how old you would be if you lived on Saturn. Participate in a space mission and make your very own Cosmic Chronometer™ watch to measure the time here on Earth



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## Secret Agent Lab

**Discover Detection** - Step into the shoes of a detective—uncover the science involved in evidence gathering and analysis. Students will create, collect, and analyze evidence and discover what skills are necessary as a crime scene lab technician.

**Jr. Detectives** - Are detectives really scientists in disguise? Discover what it takes to be a detective in this hands-on look at detective science.

**Spy Academy** - Look out 007—the Mad Science Spy Academy is in session! From edible messages and decoding clues, students will have the opportunity to check out the skills that spies have in this hands-on journey into the world of espionage

**Agent Undercover** - Calling all agents, calling all agents! Get into gear with Agent Undercover and learn what it takes to be successful in the spy world.

**Sleuths on the Scene** - Suspects, schematics, and sleuths... oh my! Connect the dots using science to help solve a crime in this hands-on investigation at the science of sleuthing.

**Whodunit?** - Want to know who did it? Learn how the pros reconstruct suspect faces through careful observation and handle evidence to build an air-tight case!

**Funky Forensics** - Figure out the science of forensics in this hands-on look at crime scenes. Use evidence collection and puzzle-making to see why forensic scientists like to understand the complete picture before they make decisions.

**Crime Lab** - Got clues? Analyze clues and get hot on the trail of a culprit with the Crime Lab program.



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## Crazy Chemworks

**Lab Works** - Try your hand as a real Mad Scientist in this whirlwind program on how a lab works! Learn to manipulate laboratory equipment at your personal lab bench, and face an egg-citing power pipetting challenge! Take home your very own Graduated Gear to continue your research!

**Junior Reactors** - Create a tiny world of atoms with your very own set of Atomic Coins™! Learn to recognize chemical reactions and mix up a few reactive ingredients for some sensational results!

**p.H. Phactor** - Slide down the colorful pH scale and dip into the world of acids and bases! Explore the extremes of pH with your Reaction Tube™ in what is sure to be a stopper-popping experience! Discover whether liquids found in your home are acids or bases using your personal Phantastic pH Paper™!

**Slime Time** - Ooze into a goopy hour of sliming around! Create slime using the Mad Science recipe, and then enter your creation in the Slime Olympics! Take home your own concoction of Mad Science Slime™!

**The Glow Show** — Amazing discoveries will come to light in this class on things that glow bright in the dark! Probe the properties of light and explore some unusual applications of glow-in-the-dark technology—including the printing of money! Use your Blacklight Writer™ to make secret messages that only you can see!

**Dry Ice Capades** - Manipulate matter in all of its three states! Melt metal in boiling water and freeze water with just a breath of dry ice! Use your Thermocolor Cup™ to test the temperature of liquid matter in your home!

**Super Sticky Stuff** - Stick to the walls, and push 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 the chemistry express for a high-speed science experience! Perform instantaneous experiments in this fast-paced class on reactions that go like mad! Pick up an Action Flask and perform some snappy chemistry experiments at home!



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